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# BREEDING AND WINTERING AREAS OF CANVASBACKS HARVESTED IN VARIOUS STATES AND PROVINCES

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**BREEDING AND WINTERING AREAS OF CANVASBACKS  
HARVESTED IN VARIOUS STATES AND PROVINCES**

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## ABSTRACT

The relationships between canvasback (Aythya valisineria) breeding, wintering, and harvest areas were examined by analyzing banding data. Although canvasbacks wintering throughout North America come from the same general production areas, those wintering on the Pacific coast have a stronger relationship to western production areas, notably Alberta, than those wintering on the east coast, which come primarily from Manitoba and Saskatchewan. East and west coast wintering populations have different harvest patterns. The west coast population is harvested in relatively few areas, and the kill is more heavily concentrated on the wintering grounds. Canadian harvests of the west coast wintering population are concentrated in Alberta, while those of the east coast wintering population are concentrated in Manitoba.

## INTRODUCTION

The low population levels of canvasbacks (Aythya valisineria) have caused great concern in recent years. Since 1957, this concern resulted in restrictive regulations for the species, including closed seasons in the United States during 1960-63 and again in 1972-73. The relationship between hunting regulations and harvest rates and the effect of restrictive regulations on canvasback survival have been reported elsewhere (Geis 1959; Geis and Crissey 1969). The amount of available data from band recoveries showing movement from breeding or wintering areas to harvest areas has increased greatly since last reported, (Stewart et al. 1958). This information is necessary to understand the effect of restrictive regulations in various harvest areas on specific wintering or breeding populations.

## PROCEDURES

Over 74,000 canvasbacks were banded between 1925 and 1972, and 8,800 have been recovered. Recoveries used in this study were confined to those reported as shot or found dead 1 September-30 January in the United States and Canada, and during 1 September-30 April in Mexico during the 1925-71 hunting seasons. For some areas it was necessary to include all recoveries since the beginning of the banding program because of small sample sizes. Other banding periods were winter (January and February), spring (March and April), and summer (June-September). In analyzing the derivation of the harvest in various harvest areas, recoveries during 1960-63 were omitted because the season was closed in the United States during those years.

As a preliminary step in the analysis, the distribution of recoveries and recovery rates from specific banding stations was examined to determine if differences existed in the distribution of recoveries from individual banding stations within the same State or Province. With three exceptions, Saskatchewan, New York, and Maryland, there were no differences, and data for an entire State or Province could be combined.

Saskatchewan was divided into a northern and a southern zone approximately along the 52° latitude line. Recoveries from the northern zone tended to be more common in the Pacific and Atlantic Flyways, whereas those from the southern zone were relatively more common in the Central and Mississippi Flyways. Banding data from the Finger Lakes of New York were separated from those of Lake Erie and the Niagara River. Birds banded in the Finger Lakes had lower band recovery rates and a much higher percentage of the total recoveries occurring near the banding site than did canvasbacks banded in the western New York area. Bandings in Maryland were separated by the 38°40' latitude line because 16.0% of the recoveries north of this line were within the 10' grid of banding or an adjacent 10' grid and only 6.4% of those banded south of the line were taken close to the banding location. Canvasbacks banded north of the line also had higher band recovery rates than those banded south of the line.

In quantitatively associating the birds killed in harvest areas with their breeding areas, it was necessary to weight the recovery data to recognize the size of the total population represented by the various banded samples. This weighting would not be necessary if the same fraction of all populations was represented by banded birds, which is not the case. An excellent example of the importance of weighting is shown by estimates of the relative importance of various production areas to the harvest of immature canvasbacks in California (see Table 9). Nevada yielded by far the greatest actual number of recoveries (62), yet this State contributed only 2.1% of the total harvest in contrast to Alberta, which yielded only 21 recoveries representing 45.2% of the harvest because of the much larger population they represented.

Weighting factors for use with male and female canvasbacks banded in the wintering grounds were computed according to a two-step process (Geis 1972). In this procedure the number of recoveries is first divided into the average winter inventory for the period 1964-72 to yield a population per recovery. This value is further adjusted by the first year recovery rate to yield a



weighting factor that represents the kill per recovery. Where possible, recovery rates for the period 1964-71 were used in making this adjustment. However, where sample sizes were small it was necessary to use the first year recovery rate from all years combined. The winter inventory value used to obtain these weighting factors was divided into males and females based on the sex composition of the kill in the wing collection survey for each harvest area. Recoveries related to bandings during January and February were used. Recoveries from spring bandings (March and April) were also included for California, Texas, North Carolina, and South Carolina, since it was reasonable to assume that they related to the winter populations of these areas.

Although a substantial number of canvasbacks may not be included in the winter inventory, it is only necessary that this survey yield information on the relative distribution of wintering canvasbacks in order to provide useful weighting factors. Because of the very uneven distribution of wintering canvasbacks, it seems likely that the relative distribution is reasonably well portrayed.

The weighting factors applied to young canvasbacks banded in the summer were computed by dividing the number of local and immature canvasbacks banded in each reference area into the average estimated breeding population for the period 1964-71. By combining data from the continent-wide breeding population survey for eight years the likelihood that sampling errors caused a misrepresentation of the distribution of the breeding canvasback population was greatly reduced. Population estimates for areas not included in the continent-wide survey, although possibly imprecise, are of such low magnitude that it is unlikely they caused serious biases in estimates of the breeding ground derivation of the harvest. The breeding population values used included adjustments both for unidentified ducks and for those present but not seen during the aerial surveys. Weighting factors for both immatures in summer and wintering populations take into account differences in shooting pressure that relate to various populations.

It was not possible to recognize shooting pressure differences in computing weighting factors for adult males and females banded preseason (June - September) because of the small sample sizes. However, it was possible to weight for differences in the sizes of populations represented by the various samples. This was done by dividing the average estimated population ( $\times 0.55$  for males and  $\times 0.45$  for females to represent distorted sex ratio in the population) by the number of recoveries. For adults, all recoveries, and second and later season recoveries, from canvasbacks banded while young were included. For immatures, only recoveries the first year after banding were considered. These weighting factors and their basis are shown in Tables 1-3. Note the sample sizes upon which all estimates of the distribution and derivation of the canvasback harvest are based are shown in the tables. In some instances, especially for the minor banding and harvest areas, small sample sizes could lead to substantial sampling errors.

## RESULTS AND DISCUSSION

The relationships between breeding or wintering areas and harvest areas can be examined in two ways. The first is to look at the distribution of

band recoveries from each banding area. The second approach, based on weighted band recoveries, examines the estimated proportion of the kill in each harvest area that comes from each banding area.

#### Distribution of Recoveries from Preseason Bandings

Tables 4 and 5 show the distribution of male and female canvasback recoveries banded during the preseason period. The recoveries are classified by age at time of banding and by three periods of recovery: the first season after banding, the second and later seasons, and all seasons of recovery combined. Table 6 shows the distribution of recoveries of local and immature canvasbacks, sexes combined. The column headed "Total Birds" contains recoveries from all canvasbacks banded during their first year of life in the preseason period.

The large sample of adult canvasbacks banded in Alaska were taken principally in wintering areas along the Pacific coast of California, Oregon, and Washington. However, a significant number, 15.0% of the males and 10.7% of the females, were recovered along the Atlantic coast.

The few recoveries from limited bandings in the Yukon and Northwest Territories were widely scattered in all four Flyways. The small sample of young and adult females banded in British Columbia were taken almost entirely along the Pacific coast, California being the most important harvest area. Recoveries from mostly young canvasbacks banded in Alberta were concentrated in California, Alberta, and Texas, in that order. A total of only 4.9% of the recoveries were taken in the Atlantic Flyway, therefore, the harvest of Alberta birds was primarily in the Pacific and Central Flyways. Young canvasbacks banded in the northern Saskatchewan area were harvested in the central Mississippi and Atlantic Flyways more often than in the Pacific Flyway. Only about 10% of the harvest of the northern Saskatchewan birds occurred on the west coast, while the remainder was distributed fairly evenly among the Central, Mississippi, and Atlantic Flyways; major harvest areas were in Texas, Wisconsin, and Maryland. Distribution of the harvest of canvasbacks of all ages and sexes banded in southern Saskatchewan was essentially similar to that of young birds from northern Saskatchewan, except that birds from the southern reference area were less often taken in the Pacific and Atlantic Flyways and more often in the Central Flyway.

Canvasbacks banded in Manitoba were strongly oriented toward Atlantic coast wintering areas. Recoveries, however, were scattered widely. The major harvest areas were Manitoba, Minnesota, Wisconsin, Michigan, and Maryland. Of these, by far the most important were Manitoba and Maryland.

Recoveries from young canvasbacks banded in North Dakota were scattered throughout the Central, Mississippi, and Atlantic Flyways. The major harvest areas in order of importance were South Dakota, Minnesota, Maryland, and Texas.

Recoveries from young canvasbacks banded in South Dakota were more concentrated in the Central Flyway than those from North Dakota. More recoveries were reported from Texas than from Maryland, suggesting a strong

southern orientation to wintering areas in Texas and Mexico. Recoveries from bandings in South Dakota occurred most commonly in South Dakota, Minnesota, Texas, and Maryland.

Although it represents a small population, a very large sample of young birds was banded in Minnesota. Recoveries from these birds indicate that the kill was largely concentrated in Minnesota. Other major harvest areas were Wisconsin and Maryland.

#### Distribution of Recoveries from Winter and Spring Bandings

The distribution of first and later year recoveries from male and female canvasbacks banded during the winter and spring banding periods is shown in Tables 7 and 8. Only the major canvasback winter areas will be discussed. The recovery pattern from birds banded in California is of special interest because of this area's very large wintering population. The harvest is very strongly concentrated in California. The harvest in Alberta, which is greater than elsewhere in Canada, suggests that Alberta is the major breeding area for the population wintering in California. No recoveries from canvasbacks banded in California have occurred in the Mississippi or the Atlantic Flyways.

Unfortunately, an adequate sample of canvasbacks has not been banded in important wintering areas in Texas or Mexico. An indication of the distribution pattern of these birds may be surmised from the distribution of a substantial sample of canvasbacks banded about 40 years ago in Louisiana. Recoveries from these bandings were concentrated in Louisiana; Saskatchewan, and Manitoba were the major Canadian recovery areas.

Large samples of canvasbacks were banded in New York. Recoveries from both the central and western New York banding areas were massed in New York; however, this was much more pronounced for birds banded in the Finger Lakes than it was for those banded in extreme western New York. Both samples had substantially more recoveries from Manitoba than from other Canadian breeding areas, suggesting that this Province was a major production area for New York wintering populations. Also, both samples had large numbers of recoveries occurring along the Atlantic coast in subsequent years, thus some of the birds shifted their wintering area after they were banded. Contrary to expectations, recoveries from winter bandings showed this shift as much as did spring-banded birds.

Canvasbacks banded in northern and southern Maryland had generally similar distant distribution patterns. Among the production areas in Canada, Manitoba was by far the most important harvest area. It is possible, though, that some of the birds harvested in Manitoba were migrating from production areas farther west. Approximately 50% of the recoveries from both banded samples were in Maryland. However, more recoveries from the southern than from the northern Maryland sample were made in Virginia and North Carolina.

It is interesting to compare distribution of recoveries from winter-banded samples in Maryland with those in California since these samples represent the two major wintering areas in North America. The canvasbacks wintering in Maryland migrated through many areas of substantial shooting pressure, and the



kill was more widely distributed than that of the California population. It is also noteworthy that the distribution of the harvest in Canada was quite different for the Maryland and California banded samples. Alberta was the most important breeding ground harvest area for the California-banded canvasbacks, while Manitoba was most important for those banded in Maryland.

The distributions of spring banding recoveries shown in Table 8 are remarkably similar to those from winter bandings with a few notable exceptions. The most striking exception is the sample banded in Michigan; the spring sample had a much greater fraction of its total recoveries occurring in Maryland than did the winter-banded sample.

#### Breeding Area Source of the Immature Harvest

Young canvasbacks harvested (Table 9) in the Prairie Provinces of Canada were produced primarily in the Province of harvest. Manitoba, however, obtains about 20% of its harvest from Saskatchewan but this is relatively slight compared to the 73.7% derived from Manitoba. Ontario derived its kill from a variety of sources, the most important being Manitoba, Saskatchewan, and North Dakota.

The birds killed in Washington and Oregon migrated primarily from Alaska, a different source than for canvasbacks harvested in other areas of the Pacific Flyway. The contribution of Alberta to the kill in Washington and Oregon was much lower than to other harvest areas in the Flyway: the very important California harvest areas received nearly one-half of their immature harvest from Alberta. The remainder of the harvest in California came from a variety of sources, the most important being Alaska, Yukon, Northwest Territories, and Saskatchewan.

Major sources of immature canvasbacks killed in North Dakota were Saskatchewan and North Dakota. The South Dakota harvest came from Saskatchewan, Manitoba, North Dakota, and South Dakota.

Immature canvasbacks killed in Texas came from a number of breeding areas. The proportion of the kill coming from the three Prairie Provinces can be broken down as follows: Alberta, 25%; Saskatchewan, 44%; and Manitoba, 14%. The only other breeding area that contributed significantly to the Texas kill was North Dakota, which provided 11% of the harvest. Most other harvest areas in the Central, Mississippi, and Atlantic Flyways depended heavily on Saskatchewan and Manitoba for birds.

The source of the immature harvest in Maryland is of particular interest because of the importance of the area to wintering canvasbacks. Table 9 indicates that about one-half of the kill was derived from Manitoba and 30% from the two Saskatchewan areas. The only other area contributing significantly to the immature canvasback kill in Maryland was North Dakota, which furnished about 11% of the total harvest. It is noteworthy that no recoveries from Alberta occurred in Maryland, although two occurred in Virginia.

The source of the harvest in Mexico was extremely scattered with the 16 recoveries of immatures reported from 11 different breeding areas.

## Summer Reference Area Source of the Adult Kill

Precise estimates of the source of the adult canvasback kill are greatly hampered by the paucity of the recoveries from adult canvasbacks banded in breeding areas. To obtain the estimates shown in Table 10 for males and Table 11 for females, it was necessary to pool indirect recoveries from birds banded while immature with all recoveries from the few birds banded as adults. Most of the recoveries used as the basis for estimating the derivation of the adult kill were actually second or later year recoveries from birds banded as immatures. The source of the adult harvest in the various harvest areas tended to be similar to that of immatures. A notable difference, however, occurred in Maryland where a smaller proportion of the adult than of the immature harvest was derived from Manitoba.

## Winter Reference Area Source of the Harvest

The wintering area sources of the canvasback harvest of males, females, and combined sexes are shown in Tables 12-14, respectively. Sample sizes are frequently rather small, particularly in regard to adult females, so perhaps the best estimate of the relative importance of the various wintering areas to the harvest in each area is Table 14 which presents combined information on the sexes. In the Prairie Provinces of Canada, about three-quarters of the kill in Alberta wintered in the Pacific Flyway and about one-quarter in the mid-Atlantic states. In contrast, less than 10% of the kill in Saskatchewan wintered in Pacific Flyway areas; most of the kill wintered in the mid-Atlantic states. There were no band recoveries from the Pacific Flyway in Manitoba which apparently depended on populations wintering along the Atlantic coast. It is also clear that in Ontario migrants were harvested mostly while moving toward Atlantic Flyway wintering areas. Texas and Mexico do not appear as a source of harvest in any of the tables because few wintering canvasbacks were banded there.

In the Pacific Flyway, Washington derived almost all of its kill from birds wintering in that State. Oregon took its harvest from birds wintering in Oregon and California. Ninety-seven percent of the California kill was derived from birds wintering there. A few canvasbacks banded in the Atlantic coast region have been recovered in the Pacific Flyway. The validity of these recoveries was verified by examining the recovery reports, and although they are of scientific interest, they are too few to be of management significance.

Canvasbacks harvested in the northern half of the Central Flyway wintered in the eastern United States. In contrast, birds harvested in the southern end of the Flyway tended to winter in Texas. If an adequate sample had been banded in Texas and Mexico, the importance of these wintering areas to all harvest areas where canvasbacks from that area are killed would probably have been increased.

Canvasbacks harvested in the Mississippi and Atlantic Flyways were migrating to or wintering in eastern areas. The wintering areas of birds harvested in Illinois are of particular interest in view of the large populations that have been observed on the Mississippi River in Keokuk Pool during migration in recent years. Recoveries of bandings in Louisiana and Texas suggest that a significant part of the population yielding the Illinois harvest

was migrating south. However, this part was apparently not as large as that wintering in the mid-Atlantic states. Again, the lack of bandings in Mexico make it difficult to interpret the relative importance of various wintering areas. The source of the harvest in the mid-Atlantic states was, as would be expected, the wintering populations of these areas. Because of the more continuous distribution of the canvasback in the relatively small east coast states, a greater number of wintering areas were represented in the harvest in the Atlantic Flyway than in the Pacific Flyway. California, for example, receives virtually its entire kill from the population wintering in California. In contrast, Maryland derives a significant harvest from birds wintering in the adjacent states of New Jersey, Delaware, Virginia, and North Carolina.

#### Reliability of Estimates

The reliability of the estimates of the relative importance of various areas to the harvest in each State or Province depends on the accuracy of the weighting factors employed and the extent to which all significant populations are represented by banded samples. The degree to which these conditions are met in the data discussed may be judged by comparing the distribution of weighted band recoveries among harvest areas with the distribution of the kill indicated by mail questionnaire surveys (Table 15). The data for this comparison can be readily obtained from Geis and Cooch (1972). Estimates of the distribution of the kill, based on summer bandings, agree very well with estimates from the mail survey, recognizing that immature birds tend to be taken in production areas and adults in wintering areas. For example, it is expected that weighted band recoveries should indicate a higher proportion of the immature kill and a lower proportion of the adult kill in Canada than the mail surveys. The reverse is true in the Atlantic Flyway where the proportion of young in the harvest is low. Winter banding indicates a much lower harvest in the Central Flyway than would be expected from the mail questionnaire survey. This variation undoubtedly results from the lack of banded canvasbacks representing the populations wintering in Texas and Mexico. The variation is further emphasized by the much smaller kill in Mexico indicated by winter-banded birds than that by weighted recoveries from summer bandings.

It can be concluded that the available banding records and weighting factors do a reasonable job of relating populations banded in summer to harvest areas. On the other hand, winter banded canvasbacks minimize the importance of populations wintering in Mexico and Texas. However, this affects only those harvest areas where these wintering populations make a significant contribution to the kill.

#### ACKNOWLEDGMENTS

This study was made possible by the many people and agencies who banded canvasbacks in North America. Those banding 200 or more canvasbacks through 1971 are listed in Appendix Table 1.

Population estimates for areas included in the continent-wide aerial survey program were made available by Richard Pospahala of the Office of Migratory Bird Management. Estimates for British Columbia, Oregon, Nevada, and

California were obtained from John Chattin, Pacific Flyway Representative (personal communication), and estimates for Colorado, Iowa, and Minnesota were provided (personal communications) by Richard Hopper (Colorado), Richard Bishop and Ronald Andrews (Iowa), and Robert Jessen (Minnesota).

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Table 1.--Weighting factors for canvasbacks banded in wintering areas.

Area	Avg. Inventory 1964-1972	<u>Males</u>		First Year Rec. Rate	Weight
		No. of Recoveries	Population per Rec.		
Washington	2036	7	290.8	.0690	20.06
Oregon	2625	19	138.2	.0077	1.06
California	25928	265	97.8	.0376	3.68
Texas	4966	9	551.8	.0175	9.66
Michigan	2580	103	25.0	.0326	0.82
Indiana	93	3	31.0	.0326	1.01
Kentucky	202	1	202.0	.0326	6.58
Louisiana	8033	103	70.0	.0217	1.69
Miss. & Alabama	3100	23	134.8	.0429	5.78
W. New York	1641	322	5.1	.0421	0.21
Central New York	1080	1195	0.9	.0511	0.05
New Jersey	3694	132	28.0	.0393	1.10
Delaware	938	157	5.97	.0287	0.17
Maryland-North	23741	477	49.8	.0424	2.11
Maryland-South	33041	344	96.0	.0355	3.41
Virginia	6544	200	32.7	.0255	0.83
North Carolina	8358	50	167.2	.0620	10.37
South Carolina	1868	2	934.0	.0556	51.93
Georgia	736	1	736.0	.0620	45.63
Florida	1740	0			

<u>Females</u>					
Washington	1918	3	639.3	.0769	49.16
Oregon	1545	9	171.7	.0197	3.38
California	22535	139	162.1	.0299	4.85
Texas	4482	4	1120.5	.0250	28.01
Michigan	2903	34	85.4	.0486	4.15
Indiana	26	0			
Kentucky	52	0			
Louisiana	9037	44	205.4	.0254	5.22
Miss. & Alabama	1722	36	47.8	.0524	2.50
W. New York	893	87	10.3	.0395	0.41
Central New York	528	289	1.83	.0444	0.08
New Jersey	2770	44	63.0	.0511	3.22
Delaware	1120	120	9.33	.0277	0.26
Maryland-North	10837	138	78.5	.0364	2.86
Maryland-South	15081	191	79.0	.0364	2.86
Virginia	4377	92	47.6	.0532	2.53
North Carolina	8720	42	207.6	.0610	12.66
South Carolina	2310	6	385.0	.0263	10.12
Georgia	446	0			
Florida	3433	3	1144.3	.0610	69.80

Table 2.--Weighting factors used to determine the breeding area source of the immature canvasback harvest

1	2	3	4
Area	Estimated Population <sup>a/</sup>	Number Banded <sup>b/</sup>	Weight per Recovery $2 \div 3 = 4$
Alaska	41778	194	215.4
Northwest Territories	61795	39	1584.5
British Columbia	6000	237	25.3
Alberta	78374	364	215.3
Saskatchewan-North	61324	870	70.5
Saskatchewan-South	81671	731	111.7
Manitoba	85534	1155	74.1
Oregon	500	25	20.0
Idaho	280	46	6.1
California	320	24	13.3
Nevada	2500	724	3.4
Utah	250	17	14.7
Montana	4804	29	165.7
North Dakota	46535	387	120.2
South Dakota	9526	173	53.9
Colorado	100	24	4.2
Minnesota	4000	1267	3.2
Iowa	25	4	6.2

a/ Average breeding population 1965-71.

b/ Excluding 1960-63.

Table 3.--Weighting factors used to weight recoveries from adult canvasbacks banded in breeding areas

Area	<u>Males</u>		Weight
	Population	No. of Recoveries	
Alaska	22978	195	118
Northwest Territories	33987	3	11329
British Columbia	3300	1	3300
Alberta	43106	17	2535
Saskatchewan-North	33728	36	937
Saskatchewan-South	44919	27	1664
Manitoba	47044	39	1206
Oregon	275	2	138
Idaho	154	0	
California	176	2	88
Nevada	1375	23	60
Utah	138	1	138
Montana	2642	6	440
North Dakota	25594	14	1828
South Dakota	5129	3	1710
Colorado	55	1	55
Minnesota	2200	22	100
Iowa	14	0	

Area	<u>Females</u>		Weight
	Population	No. of Recoveries	
Alaska	18800	66	286
Northwest Territories	27808	1	27808
British Columbia	2700	7	386
Alberta	35269	13	2713
Saskatchewan-North	27596	31	890
Saskatchewan-South	36752	31	1186
Manitoba	38490	82	469
Oregon	225	0	
Idaho	126	0	
California	144	1	144
Nevada	1125	33	34
Utah	112	0	
Montana	2162	4	540
North Dakota	20941	20	1047
South Dakota	4197	5	839
Colorado	45	0	
Minnesota	1800	39	46
Iowa	11	0	

TABLE 4. DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES (1929-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDED IN: ALASKA												
RECOVERED IN:												
ALASKA	6.3		4.0							2.0		4.4
BRITISH COLUMBIA	12.5		9.5				12.1	4.0	5.3	12.0	3.9	5.7
ALBERTA								1.7	1.4		1.7	1.3
SASKATCHEWAN								2.6	1.5			4.1
ONTARIO	12.5		9.5				3.0	2.9	2.9	6.0	2.8	3.5
ALASKA-CANADA	31.3		23.0				15.1	9.2	10.1	20.0	9.0	11.3
WASHINGTON	25.0		19.0	100.0		100.0	18.2	13.7	14.4	22.0	15.3	15.2
OREGON	18.8		14.3				9.1	12.0	11.3	12.0	11.7	11.7
WESTERN MONTANA								4.6	4.5		4.6	4.4
CALIFORNIA	12.5	60.0	23.0				24.2	37.7	35.6	20.0	38.3	34.3
UTAH	6.3		4.0					4.6	4.5	2.0	4.6	4.9
PACIFIC FLYWAY	62.6	60.0	61.9	100.0		100.0	31.3	64.0	62.3	56.0	64.3	62.3
NORTH DAKOTA							3.0	4.8	1.0	2.0	4.6	4.9
KANSAS							3.0		4.5	2.0		
TEXAS								2.9	1.9		2.2	1.7
CENTRAL FLYWAY							6.0	2.9	3.4	4.0	2.8	3.0
MINNESOTA								1.1	1.0		1.1	4.9
WISCONSIN							3.0	3.4	3.4	2.0	3.3	3.0
MICHIGAN								1.1	1.0		1.1	4.9
IOWA							3.0	4.6	1.0	2.0	4.6	4.9
ILLINOIS								4.6	4.5		4.6	4.4
ARKANSAS								4.6	4.5		4.6	4.4
LOUISIANA							9.1		1.4	6.0		1.3
MISSISSIPPI FLYWAY							13.1	7.4	8.0	10.0	7.3	7.8
CONNECTICUT								4.6	4.5		4.6	4.4
NEW YORK								1.7	1.4		1.7	1.3
MARYLAND	6.3		4.0				6.1	9.1	8.7	6.0	8.9	8.3
VIRGINIA							3.0	3.4	3.4	2.0	3.3	3.0
NORTH CAROLINA		20.0	4.6					1.1	1.0		1.7	1.3
ATLANTIC FLYWAY	6.3	20.0	9.6				9.1	15.9	15.0	8.0	16.2	14.3
MICHIGAN		20.0	4.0								4.6	4.4
CHIMUAMUA							3.0		4.5	2.0		4.4
MEXICO		20.0	4.8				3.0		4.5	2.0	4.4	4.4
TOTAL (PERCENT)	100.2	100.0	100.1	100.0		100.0	99.8	100.0	100.3	100.0	100.4	99.7
TOTAL RECOVERIES	16	5	21	1		1	33	173	204	50	140	230
BANDED IN: YUKON-NWT												
RECOVERED IN:												
OREGON		50.0	25.0								33.3	20.0
CALIFORNIA	50.0		25.0							50.0		20.0
PACIFIC FLYWAY	50.0	50.0	50.0							50.0	33.3	40.0
SOUTH DAKOTA				100.0		100.0					33.3	20.0
CENTRAL FLYWAY				100.0		100.0					33.3	20.0
MINNESOTA	50.0		25.0									20.0
MISSISSIPPI FLYWAY	50.0		25.0							50.0		20.0
VIRGINIA		50.0	25.0								33.3	20.0
ATLANTIC FLYWAY		50.0	25.0								33.3	20.0
TOTAL (PERCENT)	100.0	100.0	100.0		100.0	100.0				100.0	99.9	100.0
TOTAL RECOVERIES	2	2	4		1	1				2	3	5
BANDED IN: BRITISH COLUMBIA												
RECOVERED IN:												
BRITISH COLUMBIA	50.0		50.0							20.0		16.7
ALASKA-CANADA	50.0		50.0							20.0		16.7
CALIFORNIA	50.0	50.0	50.0	100.0	100.0	100.0				80.0	100.0	83.3
PACIFIC FLYWAY	50.0	50.0	50.0	100.0	100.0	100.0				80.0	100.0	83.3
TOTAL (PERCENT)	100.0		100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES	2		2	3	1	4				5	1	6
BANDED IN: ALBERTA												
RECOVERED IN:												
YUKON		11.1	3.1								6.3	1.9
BRITISH COLUMBIA				7.7		7.1				2.7		1.9
ALBERTA	21.7		15.6							13.3		9.4
SASKATCHEWAN	4.3		3.1							2.7		1.9
ONTARIO	4.3		3.1							2.7		1.9
ALASKA-CANADA	30.3	11.1	24.9	7.7		7.1				21.4	6.3	17.0
WASHINGTON				7.7		7.1				2.7		1.9
OREGON	4.3		3.1	7.7	100.0	14.3				5.4	6.3	5.7
IOWA	34.8	44.4	37.3	7.7		7.1				2.7		1.9
CALIFORNIA	34.8		37.3	38.5		35.7	100.0	30.0	37.1	37.6	43.6	39.6
NEVADA	4.3		3.1					16.7	14.3	2.7	6.3	3.6
UTAH	4.3	11.1	6.3							2.7	6.3	3.6
PACIFIC FLYWAY	47.7	55.5	50.0	61.6	100.0	64.2	100.0	66.7	71.4	54.0	62.7	58.7
SOUTH DAKOTA				7.7		7.1				2.7		1.9

TABLE 4 DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES (1926-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDED IN: ALBERTA												
RECOVERED IN:												
EASTERN NEW MEXICO	4.3		3.1							2.7		1.9
TEXAS		11.1	3.1	15.4		14.3				5.4	6.3	5.7
CENTRAL FLYWAY	4.3	11.1	6.2	23.1		21.4				10.8	6.3	9.5
LOUISIANA		11.1	3.1								6.3	1.9
ALABAMA	4.3		3.1							2.7		1.9
MISSISSIPPI FLYWAY	4.3	11.1	6.2							2.7	6.3	3.8
NEW YORK							16.7	14.3			6.3	1.9
MARYLAND				7.7		7.1						
VIRGINIA	8.7		6.3				16.7	14.3		2.7	6.3	3.8
ATLANTIC FLYWAY	8.7		6.3	7.7		7.1				5.4		
							33.4	28.6		8.1	12.6	9.5
SINALOA	4.3		3.1							2.7		1.9
HIDALGO		11.1	3.1								6.3	1.9
MEXICO	4.3	11.1	6.2							2.7	6.3	3.8
TOTAL (PERCENT)	99.6	99.9	99.8	100.1	100.0	99.8	100.0	100.1	100.0	99.9	100.5	100.3
TOTAL RECOVERIES	23	9	32	13	1	14	1	6	7	37	16	53
BANDED IN: N SASKATCHEWAN												
RECOVERED IN:												
SASKATCHEWAN	23.3		16.4	5.9		3.7	33.3	25.0	30.0	19.7	3.1	14.3
MANITOBA	7.0	5.6	6.6	5.9		3.7				6.1	3.1	5.1
ONTARIO	4.7		3.3							3.0		2.0
ALASKA-CANADA	35.0	5.6	26.3	11.8		7.4	33.3	25.0	30.0	28.8	6.2	21.4
OREGON	2.3		1.6							1.5		1.0
CALIFORNIA	2.3	5.6	3.2	5.9	30.0	14.8	16.7	25.0	20.0	4.5	15.6	8.2
PACIFIC FLYWAY	4.6	5.6	4.9	5.9	30.0	14.8	16.7	25.0	20.0	6.0		9.2
NORTH DAKOTA	7.0	5.6	6.6							4.5	3.1	4.1
SOUTH DAKOTA					30.0	11.1					3.1	
EASTERN WYOMING	2.3		1.6							1.5		1.0
NEBRASKA	2.3		1.6	5.9		3.7				3.0		2.0
KANSAS	2.3	5.6	1.6		10.0	3.7					6.3	2.0
OKLAHOMA	2.3		1.6							1.5		1.0
TEXAS	14.0	5.6	11.5	5.9		3.7		25.0	10.0	10.6	6.3	9.2
CENTRAL FLYWAY	27.9	16.8	24.5	11.8	40.0	22.2		25.0	10.0	21.1	25.1	22.4
MINNESOTA	2.3		1.6	11.8		7.4				4.5		3.1
WISCONSIN	4.7	11.1	6.6	23.5	10.0	18.5				9.1	9.4	9.2
MICHIGAN	7.0		4.9		10.0	3.7				4.5	3.1	4.1
IOWA	2.3	5.6	3.3		10.0	3.7				1.5	6.3	3.1
ARKANSAS		5.6	1.6								3.1	1.0
LOUISIANA		5.6	1.6	5.9		3.7				1.5	3.1	2.0
MISSISSIPPI	2.3		1.6							1.5		1.0
ALABAMA		5.6	1.6								3.1	1.0
MISSISSIPPI FLYWAY	18.6	33.5	22.8	41.2	30.0	37.0				22.6	26.1	24.5
NEW YORK	2.3		1.6							1.5		1.0
PENNSYLVANIA				5.9		3.7				1.5		1.0
MARYLAND	7.0	16.7	9.8	5.9		3.7	33.3	25.0	30.0	9.1	12.5	10.2
VIRGINIA				11.8		7.4	16.7		10.0	4.5		3.1
NORTH CAROLINA		22.2	6.6								12.5	4.1
ATLANTIC FLYWAY	9.3	38.9	18.0	23.6	14.8	50.0	25.0	40.0		16.6	25.0	19.4
JALISCO	2.3		1.6							1.5		1.0
QUERETARO	2.3		1.6							1.5		1.0
HIDALGO				5.9		3.7				1.5		1.0
MEXICO	4.6		3.2	5.9		3.7				4.5		3.0
TOTAL (PERCENT)	100.0	100.4	99.7	100.2	100.0	99.9	100.0	100.0	100.0	99.6	100.0	99.9
TOTAL RECOVERIES	43	18	61	17	10	27	6	4	10	66	32	98
BANDED IN: S SASKATCHEWAN												
RECOVERED IN:												
SASKATCHEWAN	20.0	4.3	16.1	21.4	50.0	25.0	33.3		20.0	20.7	7.4	17.5
MANITOBA	10.0		7.5	21.4		18.8				11.5		8.8
ONTARIO	8.6		6.5					50.0	20.0	6.9	3.7	6.1
ALASKA-CANADA	36.6	4.3	30.1	42.8	50.0	43.8	33.3	50.0	40.0	39.1	11.1	32.4
OREGON		4.3	1.1									.9
IDAHO	1.4		1.1							1.1		.9
CALIFORNIA	2.9	4.3	3.2	14.3		12.5		50.0	20.0	4.6	7.4	5.3
PACIFIC FLYWAY	4.3	8.6	5.4	14.3		12.5		50.0	20.0	5.7	11.1	7.1
NORTH DAKOTA	10.0		7.5				33.3		20.0	9.2		7.0
SOUTH DAKOTA	4.3	4.3	4.3	7.1		6.3				4.6	3.7	4.4
NEBRASKA					50.0	6.3					3.7	.9
KANSAS		4.3	1.1								3.7	.9
OKLAHOMA			1.1	7.1		6.3						.9
TEXAS	1.4		1.1							2.3		1.9
CENTRAL FLYWAY	10.0	13.0	10.8							8.0	11.1	8.8
	25.7	21.6	24.8	14.2	50.0	18.9	33.3		20.0	24.1	22.2	23.8
MINNESOTA	2.9	8.7	4.3	14.3		12.5				4.6	7.4	5.3
WISCONSIN	5.7		4.3							4.6		3.5
MICHIGAN	2.9	4.3	3.2							2.3	3.7	2.6
IOWA	1.4		1.1							1.1		.9
ILLINOIS	2.9	4.3	3.2							2.3	3.7	2.6
KENTUCKY	1.4		1.1							1.1		.9

TABLE 4 DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDCO IN: SASKATCHEWAN												
RECOVERED IN:												
ARKANSAS		13.0	3.2							11.1	2.6	
ALABAMA	1.4	1.1								1.1		
MISSISSIPPI FLYWAY	18.6	30.3	21.5	14.3		12.5				17.1	25.9	19.3
NEW YORK	4.3	4.3	4.3							3.4	3.7	3.5
PENNSYLVANIA		4.3	1.1								3.7	
MARYLAND	2.9	13.0	5.4	7.1		6.3				3.4	11.1	5.3
VIRGINIA	1.4	8.7	3.2				33.3		20.0	2.3	7.4	3.5
NORTH CAROLINA	1.4		1.1							1.1		
FLORIDA		4.3	1.1	7.1		6.3				1.1	3.7	
ATLANTIC FLYWAY	10.0	34.6	16.2	14.2		12.6	33.3		20.0	11.3	29.6	15.9
MICHIGAN	1.4		1.1							1.1		
OURANGO	1.4		1.1							1.1		
MEXICO	2.8		2.2							2.2		
TOTAL (PERCENT)	100.0			99.8	100.0	100.3	99.9	100.0	100.0	99.5	99.9	100.3
TOTAL RECOVERIES	70	23	93	14	2	16	3	2	5	87	27	114
BANDCO IN: MANITOBA												
RECOVERED IN:												
SASKATCHEWAN	3.8		3.0							3.1		2.4
MANITOBA	33.3	7.4	28.0	10.5		8.7	16.7		11.1	29.2	5.9	24.4
ONTARIO	7.6	11.1	8.3							6.2	8.8	6.7
ALASKA-CANADA	44.7	18.5	39.3	10.5		8.7	16.7		11.1	38.5	14.7	33.5
NORTH DAKOTA	2.9		2.3							2.3		1.8
SOUTH DAKOTA	3.8	3.7	3.8	5.3		4.3		33.3	11.1	3.8	5.9	4.3
EASTERN WYOMING	1.0											
NEBRASKA	1.9		1.5							1.5		1.2
OKLAHOMA		3.7									2.9	
TEXAS				5.3		4.3		33.3	11.1		2.9	1.2
CENTRAL FLYWAY	9.6	7.4	9.2	10.6		5.6		66.6	22.2	9.2	11.7	9.7
MINNESOTA	7.6	7.4	7.6		25.0	4.3	33.3		22.2	7.7	8.8	7.9
WISCONSIN	7.6	7.4	7.6	5.3	50.0	13.0				6.9	11.8	7.9
MICHIGAN	6.7	7.4	6.8	6.3	25.0	8.7				6.2	6.8	6.7
IOWA			5.3			4.3						
ILLINOIS	1.9		1.5	5.3		4.3	16.7		11.1	3.1		2.4
INDIANA				5.3		4.3						
OHIO		3.7					16.7		11.1		2.9	
MISSOURI	1.0											
TENNESSEE	2.9		2.3					33.3	11.1	2.3	2.9	2.4
LOUISIANA		3.7		5.3		4.3					2.9	1.2
ALABAMA		3.7									2.9	
MISSISSIPPI FLYWAY	27.7	33.3	29.0	31.8	100.0	43.2	66.7	33.3	55.5	30.2	41.0	32.1
NEW YORK		3.7									2.9	
PENNSYLVANIA	1.0											
NEW JERSEY		3.7									2.9	
MARYLAND	14.3	10.5	15.2	42.1		34.8	16.7		11.1	18.5	14.7	17.7
VIRGINIA	1.0	14.8	3.8								11.8	3.0
SOUTH CAROLINA	1.0											
GEORGIA	1.0											
ATLANTIC FLYWAY	18.3	40.7	23.0	47.4		39.1	16.7		11.1	22.4	32.3	24.3
TOTAL (PERCENT)	100.3	99.9	100.5	100.3	100.0	99.6	100.1	99.9	99.9	100.3	99.7	99.6
TOTAL RECOVERIES	105	27	132	19	4	23	6	3	9	130	34	164
BANDCO IN: ONTARIO												
RECOVERED IN:												
ONTARIO							100.0		100.0	100.0		100.0
ALASKA-CANADA							100.0		100.0	100.0		100.0
TOTAL (PERCENT)							100.0		100.0	100.0		100.0
TOTAL RECOVERIES							1		1	1		1
BANDCO IN: OREGON												
RECOVERED IN:												
CALIFORNIA							100.0	100.0	100.0	100.0	100.0	100.0
PACIFIC FLYWAY							100.0	100.0	100.0	100.0	100.0	100.0
TOTAL (PERCENT)							100.0	100.0	100.0	100.0	100.0	100.0
TOTAL RECOVERIES							1	1	2	1	1	2
BANDCO IN: IDAHO												
RECOVERED IN:												
IDAHO				50.0		50.0				50.0		50.0
CALIFORNIA				50.0		50.0				50.0		50.0
PACIFIC FLYWAY				100.0		100.0				100.0		100.0
TOTAL (PERCENT)				100.0		100.0				100.0		100.0
TOTAL RECOVERIES				2		2				2		2
BANDCO IN: CALIFORNIA												
RECOVERED IN:												

TABLE 4. DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES (1920-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: CALIFORNIA												
RECOVERED IN:												
CALIFORNIA							100.0	100.0	100.0	100.0	100.0	100.0
PACIFIC FLYWAY							100.0	100.0	100.0	100.0	100.0	100.0
TOTAL (PERCENT)							100.0	100.0	100.0	100.0	100.0	100.0
TOTAL RECOVERIES							1	1	2	1	1	2
BANDED IN: NEVADA												
RECOVERED IN:												
SASKATCHEWAN					4.3	1.1					4.3	1.1
ALASKA-CANADA					4.3	1.1					4.3	1.1
WASHINGTON					4.3	1.1					4.3	1.1
OREGON				3.0		2.2				2.9		2.2
IDAH0				1.5		1.1				1.5		1.1
CALIFORNIA				43.3	78.3	56.7				48.5	78.3	56.0
NEVADA				31.3	8.7	25.6				30.9	8.7	25.3
UTAH				6.0		4.4				7.4		5.5
ARIZONA	100.0		100.0	1.5		1.1				1.5		1.1
WESTERN NEW MEXICO				1.5		1.1				1.5		1.1
PACIFIC FLYWAY	100.0		100.0	94.1	91.3	93.3				94.2	91.3	93.4
EASTERN WYOMING					4.3	1.1					4.3	1.1
TEXAS				3.0		2.2				2.9		2.2
CENTRAL FLYWAY				3.0	4.3	3.3				2.9	4.3	3.3
LOUISIANA				1.5		1.1				1.5		1.1
MISSISSIPPI FLYWAY				1.5		1.1				1.5		1.1
ZACATECAS				1.5		1.1				1.5		1.1
MEXICO				1.5		1.1				1.5		1.1
TOTAL (PERCENT)	100.0		100.0	100.1	99.9	99.9				100.1	99.9	100.0
TOTAL RECOVERIES	1		1	67	23	90				68	23	91
BANDED IN: UTAH												
RECOVERED IN:												
UTAH	100.0	100.0	100.0							100.0	100.0	100.0
PACIFIC FLYWAY	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL (PERCENT)	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL RECOVERIES	1	1	2							1	1	2
BANDED IN: MONTANA												
RECOVERED IN:												
OREGON							25.0		16.7	14.3		11.1
CALIFORNIA	50.0		50.0					100.0	33.3	14.3	100.0	33.3
NEVADA	50.0		50.0							14.3		11.1
PACIFIC FLYWAY	100.0		100.0				25.0	100.0	50.0	42.9	100.0	55.5
NORTH DAKOTA							25.0		16.7	14.3		11.1
TEXAS				100.0		100.0	25.0		16.7	28.6		22.2
CENTRAL FLYWAY				100.0		100.0	50.0		33.4	42.9		33.3
MARYLAND							25.0		16.7	14.3		11.1
ATLANTIC FLYWAY							25.0		16.7	14.3		11.1
TOTAL (PERCENT)	100.0		100.0	100.0		100.0	100.0	4	100.0	100.1	100.0	99.9
TOTAL RECOVERIES	2		2	1		1	4	2	6	7	2	9
BANDED IN: NORTH DAKOTA												
RECOVERED IN:												
ONTARIO	7.7		5.1							7.4		4.8
ALASKA-CANADA	7.7		5.1							7.4		4.8
NORTH DAKOTA	19.2	7.7	15.4							18.5	6.7	14.3
SOUTH DAKOTA	11.5		7.7							11.1		7.1
KANSAS		7.7	2.6								6.7	2.4
OKLAHOMA	3.8		2.6							3.7		2.4
TEXAS	3.8	7.7	5.1							3.7	6.7	4.8
CENTRAL FLYWAY	38.3	23.1	33.4							37.0	20.1	31.0
MINNESOTA	7.7	7.7	7.7	100.0		50.0				11.1	6.7	9.5
WISCONSIN	7.7	7.7	7.7							7.4	6.7	7.1
MICHIGAN	11.5		7.7							11.1		7.1
IOWA	3.8	7.7	5.1							3.7	6.7	4.8
ILLINOIS	3.8		2.6							3.7		2.4
LOUISIANA								100.0	100.0		6.7	2.4
ALABAMA					100.0	50.0					6.7	2.4
MISSISSIPPI FLYWAY	34.5	23.1	30.8	100.0	100.0	100.0		100.0	100.0	37.0	33.5	35.7
NEW YORK		15.4	5.1								13.3	4.8
PENNSYLVANIA		7.7	2.6								6.7	2.4
MARYLAND	11.5	23.1	15.4							11.1	20.0	14.3
VIRGINIA	7.7	7.7	7.7							7.4	6.7	7.1
ATLANTIC FLYWAY	19.2	53.9	30.8							18.5	46.7	28.6
TOTAL (PERCENT)	99.7	100.1	100.1	100.0	100.0	100.0	100.0	100.0		99.9	100.3	100.1



TABLE 4. DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES 11928-711 FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDED IN: NORTH DAKOTA RECOVERED IN: TOTAL RECOVERIES	26	13	39	1	1	2		1	1	27	15	42
BANDED IN: SOUTH DAKOTA RECOVERED IN:												
ONTARIO	5.3		4.8							5.0		4.5
ALASKA-CANADA	5.3		4.8							5.0		4.5
OREGON		50.0	4.8								50.0	4.5
UTAH							100.0		100.0	5.0		4.5
PACIFIC FLYWAY		50.0	4.8				100.0		100.0	5.0	50.0	9.0
NORTH DAKOTA	5.3		4.8							5.0		4.5
SOUTH DAKOTA	10.5		5.5							10.0		9.1
EASTERN COLORADO	5.3		4.8							5.0		4.5
TEXAS	10.5		9.5							10.0		9.1
CENTRAL FLYWAY	31.6		28.6							30.0		27.2
MINNESOTA	10.5	50.0	14.3							10.0	50.0	13.6
WISCONSIN	15.8		14.3							15.0		13.6
MICHIGAN	10.5		9.5							10.0		9.1
OHIO	5.3		4.8							5.0		4.5
MISSOURI	5.3		4.8							5.0		4.5
MISSISSIPPI FLYWAY	47.4	50.0	47.7							45.0	50.0	45.3
NEW YORK	5.3		4.8							5.0		4.5
MARYLAND	5.3		4.8							5.0		4.5
ATLANTIC FLYWAY	10.6		9.6							10.0		9.0
CHIHUAHUA	5.3		4.8							5.0		4.5
MEXICO	5.3		4.8							5.0		4.5
TOTAL (PERCENT)	100.2	100.0	100.3				100.0		100.0	100.0	100.0	99.5
TOTAL RECOVERIES	19	2	21				1		1	20	2	22
BANDED IN: COLORADO RECOVERED IN:												
SASKATCHEWAN		50.0	33.3								50.0	33.3
ALASKA-CANADA		50.0	33.3								50.0	33.3
TEXAS	100.0	50.0	66.7							100.0	50.0	66.7
CENTRAL FLYWAY	100.0	50.0	66.7							100.0	50.0	66.7
TOTAL (PERCENT)	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL RECOVERIES	1	2	3							1	2	3
BANDED IN: MINNESOTA RECOVERED IN:												
DISTRICT OF MACKENZIE		5.0	4.6								4.8	4.5
SASKATCHEWAN		5.0	4.6								4.8	4.5
MANITOBA	6.3	5.0	6.2	40.0		33.3				7.5	4.8	7.0
ONTARIO	1.9	5.0	2.2							1.8	4.8	2.2
ALASKA-CANADA	8.2	20.0	9.6	40.0		33.3				9.1	19.2	10.2
CALIFORNIA	4.6		4.6							4.6		4.5
ARIZONA	4.6		4.6							4.6		4.5
PACIFIC FLYWAY	1.2		1.2							1.2		1.0
NORTH DAKOTA	1.9	5.0	2.2							1.8	4.8	2.2
SOUTH DAKOTA	3.2		2.8							3.0		2.7
NEBRASKA	4.6		4.6							4.6		4.5
OKLAHOMA		5.0	4.6								4.8	4.5
TEXAS	1.3		1.1							1.2		1.1
CENTRAL FLYWAY	7.0	10.0	7.3							6.6	9.6	7.0
MINNESOTA	45.6	5.0	41.0	40.0		33.3	50.0		50.0	45.5	4.8	40.9
WISCONSIN	11.4		10.1							10.9		9.7
MICHIGAN	2.5		2.2							2.4		2.2
IOWA	4.6	5.0	1.1							4.6	4.8	1.1
ILLINOIS	1.3	10.0	2.2							1.2	9.5	2.2
MISSOURI		5.0	4.6								4.8	4.5
KENTUCKY	4.6		4.6							4.6		4.5
LOUISIANA	4.6		4.6							4.6		4.5
ALABAMA		5.0	4.6								4.8	4.5
MISSISSIPPI FLYWAY	62.6	30.0	59.0	40.0		33.3	50.0		50.0	61.8	26.7	58.1
NEW YORK	4.6	10.0	1.7							4.6	9.5	1.6
PENNSYLVANIA	4.6		4.6							4.6		4.5
NEW JERSEY	4.6		4.6							4.6		4.5
DELAWARE	4.6		4.6							4.6		4.5
MARYLAND	10.8	15.0	11.2		100.0	16.7	50.0		50.0	10.9	19.0	11.8
VIRGINIA	5.1	5.0	9.1							4.8	4.8	4.8
NORTH CAROLINA	1.3	5.0	1.7							1.2	4.8	1.6
SOUTH CAROLINA		5.0	4.6								4.8	4.5
GEORGIA	4.6		4.6	20.0		16.7				1.2		1.1
ATLANTIC FLYWAY	20.2	40.0	22.7	20.0	100.0	35.4	50.0		50.0	20.5	42.9	22.9
MICHIGAN	4.6		4.6							4.6		4.5
MEXICO	4.6		4.6							4.6		4.5
TOTAL (PERCENT)	99.8	100.0	100.4	100.0	100.0	100.0	100.0		100.0	99.8	100.4	99.7



TABLE 4. DISTRIBUTION OF MALE CANVASBACK BAND RECOVERIES (1926-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: MINNESOTA RECOVERED IN: TOTAL RECOVERIES	158	20	178	5	1	6	2		2	165	21	186
BANDED IN: WISCONSIN RECOVERED IN: WISCONSIN MISSISSIPPI FLYWAY							100.0 100.0		100.0 100.0	100.0 100.0		100.0 100.0
TOTAL (PERCENT) TOTAL RECOVERIES							100.0 1		100.0 1	100.0 1		100.0 1
BANDED IN: IOWA RECOVERED IN: SOUTH DAKOTA CENTRAL FLYWAY	100.0 100.0		100.0 100.0							100.0 100.0		100.0 100.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1		100.0 1							100.0 1		100.0 1

TABLE 5 DISTRIBUTION OF FEMALE CANVASBACK BANC RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL WILC BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDED IN: ALASKA												
RECOVERED IN:												
ALASKA	4.5	10.0	6.3							2.9	1.6	2.1
BRITISH COLUMBIA	9.1		6.3				15.4		3.1	11.4		4.1
ONTARIO							7.7	1.9	3.1	2.9	1.6	2.1
ALASKA-CANADA	13.6	10.0	12.6				23.1	1.9	6.2	17.2	3.2	6.3
WASHINGTON	31.8		21.9				15.4	11.5	12.3	25.7	9.7	15.5
OREGON	18.2	10.0	15.6					9.6	7.7	11.4	9.7	10.3
IDAH0								1.9	1.5			1.0
CALIFORNIA	22.7	60.0	34.4				46.2	48.1	47.7	31.4	50.0	42.3
UTAH	4.5		3.1					1.9	1.5	2.9	1.6	2.1
PACIFIC FLYWAY	77.2	70.0	75.0				61.6	73.0	70.7	71.4	72.6	72.2
TEXAS								1.9	1.5		1.6	1.0
CENTRAL FLYWAY								1.9	1.5		1.6	1.0
MINNESOTA							7.7	1.9	3.1	2.9	1.6	2.1
WISCONSIN								5.8	4.6		4.8	3.1
LOUISIANA								3.8	3.1		3.2	2.1
MISSISSIPPI FLYWAY							7.7	11.5	10.8	2.9	9.6	7.3
NEW YORK								1.9	1.5		1.6	1.0
NEW JERSEY								3.8	3.1		3.2	2.1
MARYLAND		10.0	3.1				7.7	1.9	3.1	2.9	3.2	3.1
VIRGINIA								1.9	1.5		1.6	1.0
NORTH CAROLINA	4.5		3.1					1.9	1.5	2.9	1.6	2.1
ATLANTIC FLYWAY	4.5	10.0	6.2				7.7	11.4	10.7	5.8	11.2	9.3
JALISCO	4.5		3.1							2.9		1.0
NEUVO LEON		10.0	3.1							2.9	1.6	1.0
MEXICO	4.5	10.0	6.2								1.6	2.0
TOTAL (PERCENT)	95.8	100.0	100.0				100.1	99.7	99.9	100.2	99.8	100.1
TOTAL RECOVERIES	22	10	32				13	52	65	35	62	97
BANDED IN: YUKON-NWT												
RECOVERED IN:												
DISTRICT OF MACKENZIE	100.0		100.0							66.7		50.0
ALASKA-CANADA	100.0		100.0							66.7		50.0
CALIFORNIA					100.0	50.0					100.0	25.0
PACIFIC FLYWAY					100.0	50.0					100.0	25.0
MINNESOTA					100.0	50.0				33.3		25.0
MISSISSIPPI FLYWAY					100.0	50.0				33.3		25.0
TOTAL (PERCENT)	100.0		100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES	2		2	1	1	2				3	1	4
BANDED IN: BRITISH COLUMBIA												
RECOVERED IN:												
BRITISH COLUMBIA				25.0	100.0	50.0	33.3	50.0	40.0	25.0	75.0	41.7
ALASKA-CANADA				25.0	100.0	50.0	33.3	50.0	40.0	25.0	75.0	41.7
WASHINGTON							33.3		20.0	12.5		8.3
OREGON				25.0		16.7				12.5		6.3
CALIFORNIA	100.0		100.0	25.0		16.7	33.3	50.0	40.0	37.5	25.0	33.3
PACIFIC FLYWAY	100.0		100.0	50.0		33.4	66.6	50.0	60.0	62.5	25.0	49.9
TEXAS				25.0		16.7				12.5		8.3
CENTRAL FLYWAY				25.0		16.7				12.5		8.3
TOTAL (PERCENT)	100.0		100.0	100.0	100.0	100.1	99.9	100.0	100.0	100.0	100.0	99.9
TOTAL RECOVERIES	1		1	4	2	6	3	2	5	8	4	12
BANDED IN: ALBERTA												
RECOVERED IN:												
ALBERTA	33.3	16.7	28.6							18.5	9.1	15.6
ALASKA-CANADA	33.3	16.7	28.6							18.5	9.1	15.6
WASHINGTON				11.1		9.1				3.7		2.6
OREGON				11.1		9.1				3.7		2.6
CALIFORNIA	26.7	33.3	28.6	33.3	50.0	36.4		66.7	33.3	25.9	45.5	31.6
NEVADA	6.7	16.7	9.5				33.3		16.7	7.4	9.1	7.9
UTAH				22.2		18.2				7.4		5.3
PACIFIC FLYWAY	33.4	50.0	38.1	77.7	50.0	72.8	33.3	66.7	50.0	46.1	54.6	50.0
NORTH DAKOTA				11.1		9.1				3.7		2.6
OKLAHOMA				11.1		9.1				3.7		2.6
TEXAS	20.0		14.3							11.1		7.9
CENTRAL FLYWAY	20.0		14.3	22.2		16.2				18.5		13.1
MINNESOTA		16.7	4.8								9.1	2.6
WISCONSIN					50.0	9.1	33.3		16.7	3.7	9.1	5.3
MICHIGAN	6.7		4.8				33.3		16.7	7.4		5.3
MISSISSIPPI FLYWAY	6.7	16.7	9.6		50.0	9.1	66.6		33.4	11.1	16.2	13.2
MARYLAND		16.7	4.8					33.3	16.7		18.2	5.3
ATLANTIC FLYWAY		16.7	4.8					33.3	16.7		18.2	5.3

TABLE 5. DISTRIBUTION OF FEMALE CANVASBACK BAND RECOVERIES 11928-711 FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: ALBERTA												
RECOVERED IN:												
JALISCO	6.7		4.8							3.7		2.6
MEXICO	6.7		4.8							3.7		2.6
TOTAL (PERCENT)	100.1	100.1	100.2	99.9	100.0	100.1	99.9	100.0	100.1	99.9	100.1	100.0
TOTAL RECOVERIES	15	6	21	9	2	11	3	3	6	27	11	38
BANDED IN: N SASKATCHEWAN												
RECOVERED IN:												
SASKATCHEWAN	25.0	5.9	18.9	5.6		4.2	20.0		10.0	18.6	3.6	13.8
MANITOBA	2.8	11.8	5.7							1.7	7.1	3.4
ONTARIO	8.3	17.6	11.3	5.6		4.2				6.8	10.7	8.0
ALASKA-CANADA	36.1	35.3	35.9	11.2		8.4	20.0		10.0	27.1	21.4	25.2
WESTERN MONTANA				5.6		4.2				1.7		1.1
CALIFORNIA	2.8	11.8	5.7		16.7	12.5		40.0	20.0	5.1	17.9	9.2
ARIZONA				5.6		4.2				1.7		1.1
PACIFIC FLYWAY	2.8	11.8	5.7	22.3	16.7	20.9		40.0	20.0	6.5	17.9	11.4
NORTH DAKOTA				5.6		4.2				1.7		1.1
SOUTH DAKOTA	5.6		3.8							3.4		2.3
EASTERN COLORADO	2.8		1.9							1.7		1.1
KANSAS		5.9	1.9								3.6	1.1
TEXAS	8.3		5.7				20.0	20.0	20.0	6.8	3.6	5.7
CENTRAL FLYWAY	16.7	5.9	13.3	5.6		4.2	20.0	20.0	20.0	13.6	7.2	11.3
MINNESOTA		5.9	1.9		16.7	4.2	20.0		10.0	1.7	7.1	3.4
WISCONSIN	8.3	5.9	7.5	22.2		16.7				11.9	3.6	9.2
MICHIGAN				5.6		4.2				1.7		1.1
ILLINOIS	5.6		3.8							3.4		2.3
OHIO	2.8		1.9					20.0	10.0		3.6	1.1
TENNESSEE	8.3	11.8	9.4				20.0	20.0	20.0	1.7	10.7	8.0
LOUISIANA		5.9	1.9								3.6	1.1
MISSISSIPPI	25.0	29.5	26.4	27.8	16.7	25.1	40.0	40.0	40.0	27.2	28.6	27.3
MISSISSIPPI FLYWAY												
MASSACHUSETTS						8.3					7.1	2.3
PENNSYLVANIA							20.0		10.0	1.7		1.1
NEW JERSEY				5.6		4.2				1.7		1.1
DELAWARE		5.9	1.9								3.6	1.1
MARYLAND	2.8	11.8	5.7	16.7		12.5				6.8	7.1	6.9
VIRGINIA	2.8		1.9		16.7	4.2				1.7	3.6	2.3
NORTH CAROLINA	2.8		1.9							1.7		1.1
SOUTH CAROLINA	5.6		3.8							3.4		2.3
FLORIDA	5.6		3.8	11.1		8.3				6.8		4.6
ATLANTIC FLYWAY	19.6	17.7	19.0	33.4	50.0	37.5	20.0		10.0	23.8	21.4	22.8
ZACATECAS					16.7	4.2					3.6	1.1
MEXICO					16.7	4.2					3.6	1.1
TOTAL (PERCENT)	100.2	100.2	100.3	100.3	100.1	100.3	100.0	100.0	100.0	100.2	100.1	99.1
TOTAL RECOVERIES	36	17	53	18	6	24	5	5	10	59	28	87
BANDED IN: S SASKATCHEWAN												
RECOVERED IN:												
SASKATCHEWAN	17.0	3.4	11.8	19.0		15.4				16.9	2.9	12.4
MANITOBA	4.3	3.4	3.9		20.0	3.8				2.8	5.9	3.8
ONTARIO		3.4	1.3	4.8	20.0	7.7				1.4	5.9	2.9
QUEBEC				4.8		3.8				1.4		1.0
ALASKA-CANADA	21.3	10.2	17.0	26.6	40.0	30.7				22.3	14.7	20.1
CALIFORNIA	8.5		5.3		20.0	3.8	33.3		33.3	7.0	2.9	5.7
ARIZONA	2.1		1.7							1.4		1.0
PACIFIC FLYWAY	10.6		6.6		20.0	3.8	33.3		33.3	8.4	2.9	6.7
NORTH DAKOTA	4.3	6.9	5.3	4.8		3.8				4.2	3.9	4.8
SOUTH DAKOTA	4.3		2.6							2.8		1.9
NEBRASKA	2.1		1.3							1.4		1.0
OKLAHOMA	2.1	6.9	3.9	4.8	20.0	7.7				2.8	8.8	4.8
TEXAS	6.4	13.8	9.2	4.8	20.0	7.7				5.6	14.7	8.6
CENTRAL FLYWAY	19.2	27.6	22.3	14.4	40.0	19.2				16.8	29.4	21.1
MINNESOTA	10.6	10.3	10.5	14.3		11.5				11.3	8.8	10.5
WISCONSIN		6.9	2.6	9.5		7.7				2.8	5.9	3.8
MICHIGAN	6.4		3.9							4.2		2.9
IOWA	4.3		2.6							2.8		1.9
ILLINOIS	2.1		1.3							1.4		1.0
MISSOURI	2.1		1.3							1.4		1.0
ARKANSAS	2.1		1.3							1.4		1.0
TENNESSEE	2.1		1.3							1.4		1.0
LOUISIANA		3.4	1.3	9.5		7.7					2.9	2.9
ALABAMA	2.1	3.4	2.6	4.8		3.8				2.8	2.9	2.9
MISSISSIPPI FLYWAY	31.8	24.0	28.7	38.1		30.7				32.3	20.5	28.9
NEW YORK				4.8		3.8				1.4		1.0
PENNSYLVANIA		6.9	2.6								5.9	1.9
NEW JERSEY		3.4	1.3								2.9	1.0
MARYLAND	12.8	20.7	15.8				33.3		33.3	9.9	17.6	12.4
VIRGINIA				4.8		3.8				1.4		1.0
NORTH CAROLINA		6.9	2.6	4.8		3.8	33.3		33.3	2.8	5.9	3.8
ATLANTIC FLYWAY	12.8	37.9	22.3	14.4		11.4	66.6		66.6	15.5	32.3	21.1

TABLE 5 DISTRIBUTION OF FEMALE CANYASBACK BAND RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN PINCH REFERENCE AREAS. RECOVERIES OF NORMAL WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: S SASKATCHEWAN RECOVERED IN:												
BAJA CALIFORNIA				4.8		3.8				1.4		1.0
JALISCO	2.1		1.3							1.4		1.0
MEXICO FEDERAL DISTRICT	2.1		1.3							1.4		1.0
MEXICO	4.2		2.6	4.8		3.8				4.2		3.0
TOTAL (PERCENT)	99.9	99.7	99.5	100.1	100.0	99.6	99.9		99.9	99.7	99.8	100.9
TOTAL RECOVERIES	47	29	76	21	5	26	3		3	71	34	105
BANDED IN: MANITOBA RECOVERED IN:												
SASKATCHEWAN	1.0		.7							.7		.5
MANITOBA	28.9	21.1	26.7	12.5	15.4	13.3	28.6	5.3	15.2	25.2	15.7	22.1
ONTARIO	5.2	7.9	5.9	9.4		6.7				5.6	4.3	5.2
ALASKA-CANADA	35.1	29.0	33.3	21.9	15.4	20.0	28.6	5.3	15.2	31.5	20.0	27.8
CALIFORNIA	2.1		1.5	6.3		4.4				2.8		1.9
PACIFIC FLYWAY	2.1		1.5	6.3		4.4				2.8		1.9
NORTH DAKOTA	3.1	5.3	3.7	7.7		2.2				2.1	4.3	2.8
SOUTH DAKOTA	1.0	5.3	2.2	6.3	7.7	6.7		10.5	6.1	2.1	7.1	3.8
NEBRASKA	1.0		.7							.7		.5
KANSAS				3.1		2.2				.7		.5
OKLAHOMA				7.7		2.2					1.4	.5
TEXAS	4.1	7.9	5.2	9.4		6.7	7.1		3.0	5.6	4.3	5.2
CENTRAL FLYWAY	9.2	18.5	11.8	18.8	23.1	20.0	7.1	10.5	9.1	11.2	17.1	13.3
MINNESOTA	10.3	2.6	8.1	12.5	7.7	11.1	14.3	15.8	15.2	11.2	7.1	9.9
WISCONSIN	7.2	7.9	7.4	9.4		6.7	7.1		3.0	7.7	4.3	6.6
MICHIGAN	5.2	2.6	4.4	3.1	7.7	4.4		5.3	3.0	4.2	4.3	4.2
IOWA				6.3		4.4				1.4		.9
ILLINOIS	1.0		.7	3.1		2.2				1.4		.9
INDIANA	1.0		.7							.7		.5
OHIO	1.0	2.6	1.5				7.1		3.0	1.4	1.4	1.4
MISSOURI										.7		.5
TENNESSEE	1.0		.7					5.3	3.0	.7	1.4	.9
LOUISIANA	3.1	5.3	3.7	6.3	15.4	8.9		10.5	6.1	3.5	8.6	5.2
MISSISSIPPI FLYWAY	29.8	21.0	27.2	43.8	30.8	39.9	28.5	36.9	33.3	32.9	27.1	31.0
NEW YORK	1.0	2.6	1.5					5.3	3.0	.7	2.9	1.4
MARYLAND	13.4	15.8	14.1	3.1	15.4	6.7	28.6	31.6	30.3	12.6	20.0	15.0
VIRGINIA	3.1	5.3	3.7	3.1		2.2	7.1	10.5	9.1	3.5	5.7	4.2
NORTH CAROLINA	4.1	5.3	4.4	3.1	7.7	4.4				3.5	4.3	3.8
GEORGIA					7.7	2.2					1.4	.5
FLORIDA	1.0		.7							.7		.5
ATLANTIC FLYWAY	22.6	29.0	24.4	9.3	30.8	15.5	35.7	47.4	42.4	21.0	34.3	25.4
MICHIGAN		2.6	.7								1.4	.5
GUANAJUATO	1.0		.7							.7		.5
MEXICO	1.0	2.6	1.4							.7	1.4	1.0
TOTAL (PERCENT)	99.8	100.1	99.6	100.1	100.1	99.8	99.9	100.1	100.0	100.1	99.9	100.4
TOTAL RECOVERIES	97	38	135	32	13	45	14	19	33	143	70	213
BANDED IN: IDAHO RECOVERED IN:												
IDAHO	33.3		33.3							14.3		14.3
CALIFORNIA				25.0		25.0				14.3		14.3
NEVADA				25.0		25.0				14.3		14.3
UTAH	33.3		33.3							14.3		14.3
ARIZONA				25.0		25.0				14.3		14.3
PACIFIC FLYWAY	66.6		66.6	75.0		75.0				71.5		71.5
MICHIGAN	33.3		33.3							14.3		14.3
CHINQUAPUA				25.0		25.0				14.3		14.3
MEXICO	33.3		33.3							28.6		28.6
TOTAL (PERCENT)	99.9		99.9	100.0		100.0				100.1		100.1
TOTAL RECOVERIES	3		3	4		4				7		7
BANDED IN: CALIFORNIA RECOVERED IN:												
CALIFORNIA							100.0		100.0	100.0		100.0
PACIFIC FLYWAY							100.0		100.0	100.0		100.0
TOTAL (PERCENT)							100.0		100.0	100.0		100.0
TOTAL RECOVERIES							1		1	1		1
BANDED IN: NEVADA RECOVERED IN:												
OREGON				1.6		1.1				1.6		1.1
CALIFORNIA				46.8	77.4	57.0	100.0		50.0	47.6	75.0	56.8
NEVADA				38.7	9.7	29.0		100.0	50.0	38.1	12.5	29.5
UTAH				6.5		4.3				6.3		4.2
ARIZONA				3.2	6.5	4.3				3.2	6.3	4.2
PACIFIC FLYWAY				56.8	93.6	95.7	100.0	100.0	100.0	96.8	93.8	95.8
TEXAS				3.2	3.2	3.2				3.2	3.1	3.2

TABLE 5 DISTRIBUTION OF FEMALE CANVASBACK RANG RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: NEVADA RECOVERED IN: CENTRAL FLYWAY				3.2	3.2	3.2				3.2	3.1	3.2
SONORA MEXICO					3.2	1.1					3.1	1.1
					3.2	1.1					3.1	1.1
TOTAL (PERCENT)				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.1
TOTAL RECOVERIES				62	31	93	1	1	2	63	32	95
BANDED IN: UTAH RECOVERED IN: CALIFORNIA PACIFIC FLYWAY	100.0 100.0		100.0 100.0							100.0 100.0		100.0 100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1
BANDED IN: MONTANA RECOVERED IN: CALIFORNIA PACIFIC FLYWAY		100.0 100.0	100.0 100.0								33.3 33.3	20.0 20.0
ARKANSAS ALABAMA MISSISSIPPI FLYWAY				100.0 100.0		100.0 100.0			33.3 33.3	50.0 50.0 100.0		20.0 20.0 40.0
MARYLAND NORTH CAROLINA ATLANTIC FLYWAY								50.0 50.0 100.0	33.3 33.3 66.6		33.3 33.3 66.6	20.0 20.0 40.0
TOTAL (PERCENT)		100.0	100.0	100.0		100.0	100.0	99.9		100.0	99.9	100.0
TOTAL RECOVERIES		1	1	1		1	2	3		2	3	5
BANDED IN: NORTH DAKOTA RECOVERED IN: MANITOBA ONTARIO ALASKA-CANADA	2.6 5.1 7.7	7.7 3.8 7.6	3.8 3.8 7.6				16.7 16.7	14.3 14.3		2.5 5.0 7.5	10.5 10.5	5.1 3.4 8.5
CALIFORNIA PACIFIC FLYWAY		15.4 15.4	3.8 3.8								10.5 10.5	3.4 3.4
NORTH DAKOTA SOUTH DAKOTA EASTERN NEW MEXICO	20.5 7.7 2.6	15.4 7.7 1.9	19.2 7.7 1.9							20.0 7.5 2.5	10.5 5.3 1.7	16.9 6.8 1.7
TEXAS CENTRAL FLYWAY	7.7 38.5	7.7 30.8	7.7 36.5							7.5 37.5	5.3 21.1	6.8 32.2
MINNESOTA WISCONSIN MICHIGAN IOWA ILLINOIS LOUISIANA ALABAMA MISSISSIPPI FLYWAY	15.4 5.1 5.1 5.1 2.6 2.6 35.9	7.7 3.8 3.8 3.8 1.9 1.9 15.4	13.5 3.8 3.8 3.8 1.9 1.9 30.6							15.0 5.0 5.0 5.0 2.5 2.5 50.0	5.3 5.3 5.3 5.3 1.7 1.7 26.4	11.9 5.1 3.4 3.4 5.1 1.7 32.3
PENNSYLVANIA NEW JERSEY MARYLAND VERMONT NORTH CAROLINA ATLANTIC FLYWAY	2.6 5.1 2.6 5.1 15.4	7.7 15.4 1.9 3.8 23.1	1.9 1.9 7.7 1.9 17.2							2.5 7.5 2.5 5.0 17.5	5.3 5.3 5.3 5.3 26.4	1.7 1.7 3.4 3.4 20.4
MEXICO MEXICO	2.6 2.6	7.7 7.7	3.8 3.8							2.5 2.5	5.3 5.3	3.4 3.4
TOTAL (PERCENT)	100.1	100.1	99.5				100.0	100.1	100.1	100.0	100.2	100.2
TOTAL RECOVERIES	39	13	52				1	6	7	40	19	59
BANDED IN: SOUTH DAKOTA RECOVERED IN: ONTARIO ALASKA-CANADA							100.0 100.0		100.0	5.0 5.0		4.2 4.2
CALIFORNIA PACIFIC FLYWAY		33.3 33.3	4.5 4.5								25.0 25.0	4.2 4.2
NORTH DAKOTA SOUTH DAKOTA TEXAS CENTRAL FLYWAY	15.8 26.3 10.5 52.6		13.6 22.7 9.1 45.4							15.0 25.0 10.0 50.0		12.5 20.6 6.3 41.6
MINNESOTA IOWA ILLINOIS LOUISIANA MISSISSIPPI FLYWAY	15.8 5.3 5.3 10.5 36.9		13.6 4.5 4.5 9.1 31.7		100.0 100.0					15.0 5.0 5.0 10.0 35.0	25.0 4.2 4.2 6.3 25.0	16.7 4.2 4.2 6.3 33.4

TABLE 5 DISTRIBUTION OF FEMALE CANVASBACK BAND RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			ADULT BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDING IN: SOUTH DAKOTA												
RECOVERED IN:												
PENNSYLVANIA		33.3	4.5								25.0	4.2
MARYLAND	5.3	33.3	9.1							5.0	25.0	8.3
VIRGINIA	5.3		4.5							5.0		4.2
ATLANTIC FLYWAY	10.6	66.6	18.1							10.0	50.0	16.7
TOTAL (PERCENT)	100.1	99.9	99.7							100.0	100.0	100.1
TOTAL RECOVERIES	19	3	22	1	1	1	1	1	1	20	4	24
BANDING IN: COLORADO												
RECOVERED IN:												
EASTERN COLORADO				100.0		100.0				50.0		33.3
TEXAS		100.0	50.0								100.0	33.3
CENTRAL FLYWAY		100.0	50.0	100.0		100.0				50.0	100.0	66.6
JALISCO	100.0		50.0							50.0		33.3
MEXICO	100.0		50.0							50.0		33.3
TOTAL (PERCENT)	100.0	100.0	100.0	100.0		100.0				100.0	100.0	99.9
TOTAL RECOVERIES	1	1	2	1		1				2	1	3
BANDING IN: MINNESOTA												
RECOVERED IN:												
MANITOBA	7.4	3.6	6.7	14.3		11.1		16.7	10.0	7.5	5.6	7.1
ONTARIO	2.5	3.6	2.7							2.3	2.8	2.4
ALASKA-CANADA	9.9	7.2	9.4	14.3		11.1		16.7	10.0	9.8	8.4	9.5
WESTERN MONTANA								16.7	10.0		2.8	.6
CALIFORNIA							25.0		10.0	1.5		1.2
PACIFIC FLYWAY	.8		.7				25.0	16.7	20.0	1.5	2.8	1.8
NORTH DAKOTA	5.7	10.7	6.7							5.3	8.3	5.9
SOUTH DAKOTA	1.6		1.3							1.5		1.2
TEXAS	4.9	14.3	6.7					16.7	10.0	4.5	13.9	6.5
CENTRAL FLYWAY	12.2	25.0	14.7					16.7	10.0	11.3	22.2	13.6
MINNESOTA	54.9	25.0	49.2	28.6	100.0	44.4	50.0		20.0	53.4	25.0	47.3
WISCONSIN	5.7		4.7	14.3		11.1				6.0		4.7
MICHIGAN	1.6		1.3	14.3		11.1	25.0		10.0	3.8		2.4
IOWA	.8	3.6	1.3							.8	2.8	1.2
ILLINOIS	1.6		1.3							1.5		1.8
MISSOURI		10.7	2.0					16.7	10.0		8.3	1.8
LOUISIANA	.8		.7	14.3		11.1		33.3	20.0	1.5	5.6	2.4
MISSISSIPPI FLYWAY	65.4	39.3	60.6	71.5	100.0	77.7	75.0	50.0	60.0	66.2	44.5	61.6
NEW YORK		7.1	1.3								5.6	1.2
MARYLAND	5.7	7.1	6.0	14.3		11.1				6.0	5.6	5.9
VIRGINIA	1.6		1.3							1.5		1.2
NORTH CAROLINA	3.3	7.1	4.0							3.0	5.6	3.6
GEORGIA		3.6	.7								2.8	.6
FLORIDA		3.6	.7								2.8	.6
ATLANTIC FLYWAY	10.6	28.5	14.0	14.3		11.1				10.5	22.4	13.1
MEXICO FEDERAL DISTRICT	.8		.7							.8		.6
MEXICO	.8		.7							.8		.6
TOTAL (PERCENT)	99.7	100.0	100.1	100.1	100.0	99.9	100.0	100.1	100.0	100.1	100.3	100.2
TOTAL RECOVERIES	122	28	150	7	2	9	4	6	10	133	36	169
BANDING IN: MICHIGAN												
RECOVERED IN:												
VIRGINIA							100.0	100.0		100.0	100.0	
ATLANTIC FLYWAY							100.0	100.0		100.0	100.0	
TOTAL (PERCENT)							100.0	100.0		100.0	100.0	
TOTAL RECOVERIES							1	1		1	1	

TABLE 6 DISTRIBUTION OF CANVASBACK BAND RECOVERIES 11928-711 FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
<b>BANDED IN: ALASKA</b>									
RECOVERED IN:									
ALASKA	5.3	6.7	5.7				5.1	6.7	5.6
BRITISH COLUMBIA	10.5		7.5				10.3		7.4
ONTARIO	5.3		3.8				5.1		3.7
ALASKA-CANADA	21.1	6.7	17.0				20.5	6.7	16.7
WASHINGTON	28.9		20.8	100.0		100.0	30.8		22.2
OREGON	18.4	6.7	15.1				17.9	6.7	14.8
CALIFORNIA	18.4	60.0	30.2				17.9	60.0	29.6
UTAH	5.3		3.8				5.1		3.7
PACIFIC FLYWAY	71.0	66.7	69.9	100.0		100.0	71.7	66.7	70.3
MARYLAND	2.6	6.7	3.8				2.6	6.7	3.7
NORTH CAROLINA	2.6	6.7	3.8				2.6	6.7	3.7
ATLANTIC FLYWAY	5.2	13.4	7.6				5.2	13.4	7.4
JALISCO	2.6		1.9				2.6		1.9
MICHOACAN		6.7	1.9					6.7	1.9
NEUVO LEON		6.7	1.9					6.7	1.9
MEXICO	2.6	13.4	5.7				2.6	13.4	5.7
TOTAL (PERCENT)	99.9	100.2	100.2	100.0		100.0	100.0	100.2	100.1
TOTAL RECOVERIES	38	15	53	1		1	39	15	54
<b>BANDED IN: YUKON-NWT</b>									
RECOVERED IN:									
DISTRICT OF HACKENZ I	50.0		33.3				40.0		22.2
ALASKA-CANADA	50.0		33.3				40.0		22.2
OREGON		50.0	16.7					25.0	11.1
CALIFORNIA	25.0		16.7	50.0	33.3		20.0	25.0	22.2
PACIFIC FLYWAY	25.0	50.0	33.4	50.0	33.3		20.0	50.0	33.3
SOUTH DAKOTA				50.0	33.3			25.0	11.1
CENTRAL FLYWAY				50.0	33.3			25.0	11.1
MINNESOTA	25.0		16.7	100.0		33.3	40.0		22.2
MISSISSIPPI FLYWAY	25.0		16.7	100.0		33.3	40.0		22.2
VIRGINIA		50.0	16.7					25.0	11.1
ATLANTIC FLYWAY		50.0	16.7					25.0	11.1
TOTAL (PERCENT)	100.0	100.0	100.1	100.0	100.0	99.9	100.0	100.0	99.9
TOTAL RECOVERIES	4	2	6	1	2	3	5	4	9
<b>BANDED IN: BRITISH COLUMBIA</b>									
RECOVERED IN:									
BRITISH COLUMBIA	20.0	40.0	23.3	14.3	40.0	19.2	17.4	40.0	21.4
ALASKA-CANADA	20.0	40.0	23.3	14.3	40.0	19.2	17.4	40.0	21.4
WASHINGTON	20.0		16.7	14.3		11.5	17.4		14.3
OREGON	20.0		16.7	14.3		11.5	17.4		14.3
CALIFORNIA	32.0	60.0	36.7	52.4	60.0	53.8	41.3	60.0	44.6
PACIFIC FLYWAY	72.0	60.0	70.1	81.0	60.0	76.8	76.1	60.0	73.2
TEXAS				4.8		3.8	2.2		1.8
CENTRAL FLYWAY				4.8		3.8	2.2		1.8
PENNSYLVANIA	4.0		3.3				2.2		1.8
MARYLAND	4.0		3.3				2.2		1.8
ATLANTIC FLYWAY	8.0		6.6				4.4		3.6
TOTAL (PERCENT)	100.0	100.0	100.0	100.1	100.0	99.8	100.1	100.0	100.0
TOTAL RECOVERIES	25	5	30	21	5	26	46	10	56
<b>BANDED IN: ALBERTA</b>									
RECOVERED IN:									
YUKON		6.7	1.9					5.3	1.3
BRITISH COLUMBIA				4.3		3.7	1.6		1.3
ALBERTA	26.3	6.7	20.8				16.4	5.3	13.6
SASKATCHEWAN	2.6		1.9				1.6		1.3
ONTARIO	2.6		1.9				1.6		1.3
ALASKA-CANADA	31.5	13.4	26.5	4.3		3.7	21.2	10.6	19.0
WASHINGTON				8.7		7.4	3.3		2.5
OREGON	2.6		1.9	8.7	25.0	11.1	4.9	5.3	5.0
IDAHO				4.3		3.7	1.6		1.3
CALIFORNIA	31.6	40.0	34.0	39.3	25.0	37.0	34.4	36.8	35.0
NEVADA	5.3	6.7	5.7				3.3	5.3	3.8
UTAH	2.6	6.7	3.8	8.7		7.4	4.9	5.3	5.0
PACIFIC FLYWAY	42.1	53.4	45.4	69.5	50.0	66.6	52.4	56.7	52.6
NORTH DAKOTA				4.3		3.7	1.6		1.3
SOUTH DAKOTA				4.3		3.7	1.6		1.3
EASTERN NEW MEXICO							1.6		1.3
OKLAHOMA				4.3		3.7	1.6		1.3
TEXAS	7.9	6.7	7.5	8.7		7.4	8.2	5.3	7.5
CENTRAL FLYWAY	10.5	6.7	9.4	21.6		18.5	14.6	5.3	12.7
MINNESOTA		6.7	1.9					5.3	1.3

TABLE 6 DISTRIBUTION OF CANVASBACK BAND RECOVERIES (1920-71) FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDING IN: ALBERTA									
RECOVERED IN:									
WISCONSIN				25.0	3.7			5.3	1.3
MICHIGAN	2.6	6.7	1.9				1.6		1.3
LOUISIANA			1.9					5.3	1.3
ALABAMA	2.6		1.9				1.6		1.3
MISSISSIPPI FLYWAY	5.2	13.4	7.6	25.0	3.7		3.2	15.9	6.5
MARYLAND		6.7	1.9	4.3	25.0	7.4	1.6	10.5	3.8
VIRGINIA	5.3		3.8				3.3		2.5
ATLANTIC FLYWAY	5.3	6.7	5.7	4.3	25.0	7.4	4.9	10.5	6.3
SINALOA	2.6		1.9				1.6		1.3
JALISCO	2.6		1.9				1.6		1.3
HIDALGO		6.7	1.9					5.3	1.3
MEXICO	5.2	6.7	5.7				3.2	5.3	3.9
TOTAL (PERCENT)	99.8	100.3	100.3	99.7	100.0	99.9	99.5	100.3	101.0
TOTAL RECOVERIES	38	15	53	23	4	27	61	19	80
BANDING IN: N SASKATCHEWAN									
RECOVERED IN:									
SASKATCHEWAN	24.7	2.9	18.1	5.6		3.8	18.8	2.0	13.7
MANITOBA	4.9	8.6	6.0	2.8		1.9	4.3	5.9	4.8
ONTARIO	6.2	8.6	6.9	2.8		1.9	5.1	5.9	5.4
ALASKA-CANADA	35.8	20.1	31.0	11.2		7.6	28.2	13.6	23.9
OREGON	1.2		.9				.9		.6
WESTERN MONTANA				2.8		1.9	.9		.6
CALIFORNIA	2.5	8.6	4.3	6.3	25.0	13.5	4.3	13.7	7.1
ARIZONA				2.8		1.9	.9		.6
PACIFIC FLYWAY	3.7	8.6	5.2	13.9	25.0	17.3	7.0	13.7	8.9
NORTH DAKOTA	3.7	2.9	3.4	2.8		1.9	3.4	2.0	3.0
SOUTH DAKOTA	2.5		1.7		18.8	5.8	1.7	5.9	3.0
EASTERN WYOMING	1.2		.9				.9		.6
NEBRASKA	1.2		.9	2.8		1.9	1.7		1.2
EASTERN COLORADO	1.2		.9				.9		.6
KANSAS		5.7	1.7		6.3	1.9		5.9	1.8
OKLAHOMA	1.2		.9				.9		.6
TEXAS	11.1	2.9	8.6	5.6		3.8	9.4	2.0	7.1
CENTRAL FLYWAY	22.1	11.5	19.0	11.2	25.1	15.3	18.9	15.8	17.9
MINNESOTA	1.2	2.9	1.7	5.6	6.3	5.8	2.6	3.9	3.0
WISCONSIN	6.2	8.6	6.9	22.2	6.3	17.3	11.1	7.8	10.1
MICHIGAN	3.7		2.6	2.8	6.3	3.8	3.4	2.0	3.0
ICOWA	1.2	2.9	1.7		6.3	1.9	1.7	3.9	1.8
ILLINOIS	2.5		1.7				1.7		1.2
ARKANSAS		2.9	.9					2.0	.6
TENNESSEE	1.2		.9				.9		.6
LOUISIANA	3.7	8.6	5.2	2.8		1.9	3.4	5.9	4.8
MISSISSIPPI	1.2	2.9	1.7				.9	2.0	1.2
ALABAMA		2.9	.9					2.0	.6
MISSISSIPPI FLYWAY	20.9	31.7	24.2	33.4	25.2	30.7	24.9	29.5	26.3
MASSACHUSETTS					12.5	3.8		3.9	1.2
NEW YORK	1.2		.9				.9		.6
PENNSYLVANIA				2.8		1.9	.9		.6
NEW JERSEY				2.8		1.9	.9		.6
DELAWARE		2.9	.9					2.0	.6
MARYLAND	6.2	14.3	8.6	11.1		7.7	7.7	9.8	8.3
VIRGINIA	1.2		.9	5.6	6.3	5.8	2.6	2.0	2.4
NORTH CAROLINA	1.2	11.4	4.3				.9	7.8	3.0
SOUTH CAROLINA	2.5		1.7				1.7		1.2
FLORIDA	2.5		1.7			3.8	3.4		1.2
ATLANTIC FLYWAY	14.8	28.6	14.0	27.9	18.8	24.9	19.0	25.5	20.9
JALISCO	1.2		.9				.9		.6
ZACATECAS					6.3	1.9		2.0	.6
QUERETARO	1.2		.9				.9		.6
HIDALGO				2.8		1.9	.9		.6
MEXICO	2.4		1.8	2.8	6.3	3.8	2.7	2.0	2.4
TOTAL (PERCENT)	99.7	100.5	100.2	100.4	100.4	99.6	100.7	100.3	100.3
TOTAL RECOVERIES	81	35	116	36	16	52	117	51	168
BANDING IN: S SASKATCHEWAN									
RECOVERED IN:									
SASKATCHEWAN	18.5	3.8	14.0	20.0	14.3	19.0	18.8	5.1	15.0
MANITOBA	7.6	1.9	5.8	8.6	14.3	9.5	7.8	3.4	6.6
ONTARIO	5.0	1.9	4.1	2.9	14.3	4.8	4.3	3.4	4.2
QUEBEC				2.9		2.4	.6		.3
ALASKA-CANADA	31.1	7.6	23.9	34.4	42.9	35.7	31.7	11.9	26.3
OREGON		1.9	.6					1.7	.5
IDAHO	.8		.6				.6		.5
CALIFORNIA	5.0	1.9	4.1	5.7	14.3	7.1	5.2	3.4	4.7
ARIZONA			.6				.6		.6
PACIFIC FLYWAY	6.6	3.8	5.9	5.7	14.3	7.1	6.4	5.1	6.2
NORTH DAKOTA	7.6	3.8	6.4	2.9		2.4	6.3	3.4	5.6
SOUTH DAKOTA	4.2	1.9	3.3	2.9		2.4	3.9	1.7	3.3
NEBRASKA	.8		.6		14.3	2.4	.6	1.7	.9



TABLE 6 DISTRIBUTION OF CANVASBACK BOUND RECOVERIES 1920-71 FROM PRESEASON BANDING ACCOMPLISHED IN MINDI REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDING IN: S SASKATCHEWAN									
RECOVERED IN:									
KANSAS		1.9	.6					1.7	.5
OKLAHOMA	1.7	3.0	2.3	5.7	14.3	7.1	2.6	5.1	3.3
TEXAS	9.2	13.5	10.5	2.9	14.3	4.8	7.8	13.6	9.4
CENTRAL FLYWAY	23.5	24.9	23.9	14.4	42.9	19.1	21.4	27.2	23.0
MINNESOTA	5.9	9.6	7.0	14.3		11.9	7.8	8.5	8.0
WISCONSIN	3.4	3.0	3.5	5.7			3.9	3.4	3.8
MICHIGAN	4.2	1.9	3.5				3.2	1.7	2.8
IOWA	2.5		1.0				1.9		1.4
ILLINOIS	2.5	1.9	2.3				1.9	1.7	1.9
MISSOURI	.8		.6				.6		.5
KENTUCKY	.8		.6				.6		.5
ARKANSAS	.8	5.8	2.3				.6	5.1	1.9
TENNESSEE	.8		.6				.6		.5
LOUISIANA		1.9	.6	5.7		4.8	1.3	1.7	1.4
ALABAMA	1.7	1.9	1.0	2.9		2.4	1.9	1.7	1.9
MISSISSIPPI FLYWAY	23.4	26.8	24.6	28.6		23.9	24.3	23.8	24.6
NEW YORK	2.5	1.9	2.3	2.9		2.4	2.6	1.7	2.3
PENNSYLVANIA		5.8	1.0					5.1	1.4
NEW JERSEY		1.9	.6					1.7	.5
MARYLAND	7.6	17.3	10.5	2.9		2.4	6.5	15.3	8.9
VIRGINIA	.8	3.8	1.0	2.9		2.4	1.3	3.4	1.9
NORTH CAROLINA	.8	3.8	1.0	2.9		2.4	1.3	3.4	1.9
FLORIDA		1.9	.6	2.9		2.4	.6	1.7	.9
ATLANTIC FLYWAY	11.7	36.4	19.4	14.5		12.0	12.3	32.3	17.8
BAJA CALIFORNIA				2.9		2.4			.5
JALISCO	.8		.6				.6		.5
MICHIGAN	.8		.6				.6		.5
DURANGO	.8		.6				.6		.5
MEXICO FEDERAL DISTRICT	.8		.6				.6		.5
MEXICO	3.2		2.4	2.9		2.4	3.0		2.5
TOTAL (PERCENT)	99.5	99.5	100.1	100.5	100.1	100.2	99.1	100.3	100.4
TOTAL RECOVERIES	119	52	171	35	7	42	154	59	213
BANDING IN: MANITOBA									
RECOVERED IN:									
SASKATCHEWAN	2.5		1.9				2.0		1.5
MANITOBA	30.9	15.2	27.0	11.8	11.8	11.8	27.1	14.5	24.0
ONTARIO	6.4	9.1	7.0	5.9		4.4	6.3		4.5
ALA SCA-CANADA	39.8	24.3	35.9	17.7	11.8	16.2	35.4	21.7	32.0
CALIFORNIA	1.0		.7	3.9		2.9	1.6		1.2
PACIFIC FLYWAY	1.0		.7	3.9		2.9	1.6		1.2
NORTH DAKOTA	2.9	3.0	3.0		5.9	1.5	2.4	3.6	2.7
SOUTH DAKOTA	2.5	4.5	3.0	5.9	5.9	5.9	3.1	4.8	3.6
EASTERN WYOMING		.5	.4				.4		.3
NEBRASKA	1.5		1.1				1.2		.9
KANSAS		1.5	.4	2.0		1.5	.4		.3
OKLAHOMA			.4		5.9	1.5		2.4	.6
TEXAS	2.0	4.5	2.6	7.8		5.9	3.1	3.6	3.3
CENTRAL FLYWAY	9.4	13.5	10.5	15.7	17.7	16.3	10.6	14.4	11.7
MINNESOTA	8.8	4.5	7.8	7.8	11.8	8.8	8.6	6.0	8.0
WISCONSIN	7.4	7.6	7.4	7.8	11.8	8.8	7.7		7.7
MICHIGAN	5.9	4.5	5.6	3.9	11.8	5.9	5.5	6.0	5.6
IOWA				5.9		4.4	1.2		.9
ILLINOIS	2.0		1.5	3.9		2.9	2.4		1.8
INDIANA	.5		.4	2.0		1.5	.8		.6
OHIO	.5	3.0	1.1				.4	2.4	.9
MISSOURI	.5		.4	2.0		1.5	.8		.6
TENNESSEE	2.0		1.5				1.6		1.2
LOUISIANA	1.5	4.5	2.2	5.9	11.8	7.4	2.4	6.0	3.3
ALABAMA		1.5	.4					1.2	.3
MISSISSIPPI FLYWAY	29.1	25.6	28.3	39.2	47.2	41.2	31.2	30.0	30.9
NEW YORK	.5	3.0	1.1				.4	2.4	.9
PENNSYLVANIA	.5		.4						.3
NEW JERSEY		1.5	.4				.4	1.2	.3
MARYLAND	14.2	18.2	15.2	17.6	11.8	16.2	14.9	16.9	15.4
VIRGINIA	2.0	9.1	3.7	2.0		1.5	2.0	7.2	3.3
NORTH CAROLINA	2.0	3.0	2.2	2.0	5.9	2.9	2.0	3.6	2.4
SOUTH CAROLINA	.5						.4		.3
GEORGIA	.5		.4	2.0	5.9	2.9	.8	1.2	.9
FLORIDA	.5		.4				.4		.3
ATLANTIC FLYWAY	20.7	34.8	24.2	23.6	23.6	23.5	21.3	32.5	24.1
MICHIGAN		1.5	.4					1.2	.3
GUANAJUATO	.5		.4				.4		.3
MEXICO	.5	1.5	.8				.4	1.2	.6
TOTAL (PERCENT)	100.5	99.7	100.4	100.1	100.3	100.1	100.5	99.8	100.5
TOTAL RECOVERIES	204	66	270	51	17	68	255	93	338
BANDING IN: OREGON									
RECOVERED IN:									
OREGON	50.0		50.0				50.0		50.0
CALIFORNIA	50.0		50.0				50.0		50.0

TABLE 6 DISTRIBUTION OF CANVASBACK RANG RECOVERIES 11928-711 FROM PRESEASON BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: OREGON RECOVERED IN: PACIFIC FLYWAY	100.0		100.0				100.0		100.0
TOTAL (PERCENT)	100.0		100.0				100.0		100.0
TOTAL RECOVERIES	2		2				2		2
BANDED IN: IDAHO RECOVERED IN:									
IDAHO	33.3		33.3	16.7		16.7	22.2		22.2
CALIFORNIA				33.3		33.3	22.2		22.2
NEVADA				16.7		16.7	11.1		11.1
UTAH	33.3		33.3				11.1		11.1
ARIZONA				16.7		16.7	11.1		11.1
PACIFIC FLYWAY	66.6		66.6	83.4		83.4	77.7		77.7
MICHIGAN	33.3		33.3				11.1		11.1
CHIHUAHUA				16.7		16.7	11.1		11.1
MEXICO	33.3		33.3	16.7		16.7	22.2		22.2
TOTAL (PERCENT)	99.9		99.9	100.1		100.1	99.9		99.9
TOTAL RECOVERIES	3		3	6		6	9		9
BANDED IN: CALIFORNIA RECOVERED IN:									
CALIFORNIA	100.0		100.0				100.0		100.0
PACIFIC FLYWAY	100.0		100.0				100.0		100.0
TOTAL (PERCENT)	100.0		100.0				100.0		100.0
TOTAL RECOVERIES	3		3				3		3
BANDED IN: NEVADA RECOVERED IN:									
SASKATCHEWAN				1.9		.5	1.9		.5
ALASKA-CANADA				1.9		.5	1.9		.5
WASHINGTON				1.9		.5	1.9		.5
DRECON				2.3		1.6	2.3		1.6
IDAHO				.8		.5	.8		.5
CALIFORNIA				40.1		77.8	47.7		56.5
NEVADA	100.0		100.0	34.9		27.3	34.6		27.2
UTAH				6.2		4.4	6.9		4.9
ARIZONA				2.3		2.7	2.3		2.7
WESTERN NEW MEXICO				.8		.5	.8		.5
PACIFIC FLYWAY	100.0		100.0	95.4		94.3	95.4		94.4
EASTERN WYOMING				1.9		.5	1.9		.5
TEXAS				3.1		2.7	3.1		2.7
CENTRAL FLYWAY				3.1		3.2	3.1		3.2
LOUISIANA				.8		.5	.8		.5
MISSISSIPPI FLYWAY				.8		.5	.8		.5
SONORA				1.9		.5	1.9		.5
ZACATECAS				.8		.5	.8		.5
MEXICO				.8		1.0	.8		1.0
TOTAL (PERCENT)	100.0		100.0	100.1		99.5	100.1		99.6
TOTAL RECOVERIES	1		1	129		183	130		184
BANDED IN: UTAH RECOVERED IN:									
CALIFORNIA	50.0		33.3				50.0		33.3
UTAH	50.0		66.7				50.0		66.7
PACIFIC FLYWAY	100.0		100.0				100.0		100.0
TOTAL (PERCENT)	100.0		100.0				100.0		100.0
TOTAL RECOVERIES	2		3				2		3
BANDED IN: MONTANA RECOVERED IN:									
IDAHO				100.0		33.3			
CALIFORNIA	50.0		66.7				25.0		33.3
NEVADA	50.0		33.3				25.0		16.7
PACIFIC FLYWAY	100.0		100.0				50.0		66.7
TEXAS				50.0		33.3	25.0		16.7
CENTRAL FLYWAY				50.0		33.3	25.0		16.7
ARKANSAS				50.0		33.3	25.0		16.7
MISSISSIPPI FLYWAY				50.0		33.3	25.0		16.7
TOTAL (PERCENT)	100.0		100.0	100.0		99.9	100.0		100.1
TOTAL RECOVERIES	2		3	2		3	4		6
BANDED IN: NORTH DAKOTA RECOVERED IN:									

TABLE 8 DISTRIBUTION OF CARVASSACK BOND RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN NINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDING IN: NORTH DAKOTA									
RECOVERED IN:									
MANITOBA	1.5	3.6	2.2				1.5	3.7	2.2
ONTARIO	6.2		4.4				6.1		4.3
ALASKA-CANADA	7.7	3.6	6.6				7.6	3.7	8.5
CALIFORNIA		7.7	2.2					7.4	2.2
PACIFIC FLYWAY		7.7	2.2					7.4	2.2
NORTH DAKOTA	20.0	11.3	17.6				19.7	11.1	17.2
SOUTH DAKOTA	9.2	3.6	7.7				9.1	3.7	7.5
KANSAS		3.6	1.1					3.7	1.1
EASTERN NEW MEXICO	1.5		1.1				1.5		1.1
OKLAHOMA	1.5		1.1				1.5		1.1
TEXAS	6.2	7.7	6.6				6.1	7.4	6.5
CENTRAL FLYWAY	36.4	26.6	35.2				37.9	25.9	34.5
MINNESOTA	12.3	7.7	11.0	100.0		50.0	13.6	7.4	11.8
WISCONSIN	6.2	3.6	5.5				6.1	3.7	5.4
MICHIGAN	7.7		5.5				7.6		5.4
IOWA	4.4	3.6	4.4				4.5	3.7	4.3
ILLINOIS	1.5	3.6	2.2				1.5		2.2
LOUISIANA	1.5		1.1				1.5		1.1
ALABAMA	1.5		1.1				1.5		2.2
MISSISSIPPI FLYWAY	35.3	19.1	30.6	100.0	100.0	50.0	36.3	22.2	32.4
NEW YORK		7.7	2.2					7.4	2.2
PENNSYLVANIA	1.5	3.6	2.2				1.5	3.7	2.2
NEW JERSEY		3.6	1.1					3.7	1.1
MARYLAND	7.7	19.2	11.0				7.6	18.5	10.8
VIRGINIA	4.4	3.6	4.4				4.5	3.7	4.3
NORTH CAROLINA	3.1		2.2				3.0		2.2
ATLANTIC FLYWAY	16.9	38.3	23.1				16.4	37.0	22.8
MEXICO	1.5	3.6	2.2				1.5	3.7	2.2
TOTAL (PERCENT)	99.8	99.5	100.1	100.0	100.0	100.0	99.9	99.9	100.0
TOTAL RECOVERIES	65	26	91	1	1	2	66	27	93
BANDING IN: SOUTH DAKOTA									
RECOVERED IN:									
ONTARIO	2.6		2.3				2.6		2.3
ALASKA-CANADA	2.6		2.3				2.6		2.3
OREGON		20.0	2.3					19.7	2.3
CALIFORNIA		20.0	2.3					19.7	2.3
PACIFIC FLYWAY		40.0	4.8					33.4	4.8
NORTH DAKOTA	10.5		9.3				10.5		9.1
SOUTH DAKOTA	18.4		16.3				18.4		15.9
EASTERN COLORADO	2.6		2.3				2.6		2.3
TEXAS	10.5		9.3				10.5		9.1
CENTRAL FLYWAY	42.0		37.2				42.0		36.4
MINNESOTA	13.2	20.0	14.0	100.0	100.0		13.2	33.3	15.9
WISCONSIN	7.9		7.0				7.9		6.8
MICHIGAN	5.3		4.7				5.3		4.5
IOWA	2.6		2.3				2.6		2.3
ILLINOIS	2.6		2.3				2.6		2.3
OHIO	2.6		2.3				2.6		2.3
MISSOURI	2.6		2.3				2.6		2.3
LOUISIANA	5.3		4.7				5.3		4.5
MISSISSIPPI FLYWAY	42.1	20.0	39.6	100.0	100.0		42.1	33.3	40.9
NEW YORK			2.3						2.3
PENNSYLVANIA	2.6	20.0	2.3				2.6	16.7	2.3
MARYLAND	5.3	20.0	7.0				5.3	16.7	6.8
VIRGINIA	2.6		2.3				2.6		2.3
ATLANTIC FLYWAY	10.5	40.0	13.9				10.5	33.4	13.7
CHIHUAHUA	2.6		2.3				2.6		2.3
MEXICO	2.6		2.3				2.6		2.3
TOTAL (PERCENT)	99.8	100.0	99.9	100.0	100.0		99.8	100.1	100.2
TOTAL RECOVERIES	38	5	43	1	1		38	8	44
BANDING IN: COLORADO									
RECOVERED IN:									
SASKATCHEWAN		33.3	20.0					33.3	16.7
ALASKA-CANADA		33.3	20.0					33.3	16.7
EASTERN COLORADO				100.0		100.0			
TEXAS	50.0	66.7	60.0				33.3	66.7	16.7
CENTRAL FLYWAY	50.0	66.7	60.0	100.0		100.0	33.3	66.7	50.0
JALISCO	50.0		20.0				33.3		16.7
MEXICO	50.0		20.0				33.3		16.7
TOTAL (PERCENT)	100.0	100.0	100.0	100.0		100.0	99.9	100.0	100.1
TOTAL RECOVERIES	2	3	5	1		1	3	3	6
BANDING IN: MINNESOTA									
RECOVERED IN:									

TABLE 6 DISTRIBUTION OF CANVASBACK BAND RECOVERIES (1928-71) FROM PRESEASON BANDING ACCOMPLISHED IN KINDR REFERENCE AREAS. RECOVERIES OF NOMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	LOCAL BIRDS			IMMATURE-JUVENILE BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: MINNESOTA									
RECOVERED IN:									
DISTRICT OF MACKENZIE		2.1	.3					2.0	.3
SASKATCHEWAN		2.1	.3					2.0	.3
MANITOBA	6.8	4.2	6.4	25.0		20.0	7.5	3.9	7.0
ONTARIO	2.1	4.2	2.4				2.1	3.9	2.3
ALASKA-CANADA	8.9	12.6	9.4	25.0		20.0	9.6	11.8	9.9
CALIFORNIA	.7		.6				.7		.6
ARIZONA	.4		.3				.3		.3
PACIFIC FLYWAY	1.1		.9				1.0		.9
NORTH DAKOTA	3.6	8.3	4.3				3.4	7.8	4.1
SOUTH DAKOTA	2.5		2.1				2.4		2.0
NEBRASKA	.4		.3				.3		.3
OKLAHOMA		2.1	.3					2.0	.3
TEXAS	2.9	8.3	3.7				2.7	7.8	3.5
CENTRAL FLYWAY	9.4	18.7	10.7				8.8	17.5	10.2
MINNESOTA	49.6	16.7	44.8	33.3	66.7	40.0	49.0	19.6	44.6
WISCONSIN	8.9		7.6	8.3		6.7	8.9		7.6
MICHIGAN	2.1		1.8	8.3		6.7	2.4		2.0
IOWA	.7	4.2	1.2				.7	3.9	1.2
ILLINOIS	1.4	4.2	1.8				1.4	3.9	1.7
MISSOURI		8.3	1.2					7.8	1.2
KENTUCKY	.4		.3				.3		.3
LOUISIANA	.7		.6	8.3		6.7	1.0		.9
ALABAMA		2.1	.3					2.0	.3
MISSISSIPPI FLYWAY	63.8	35.5	59.6	58.2	66.7	60.1	63.7	37.2	59.8
NEW YORK	.4	8.3	1.5				.3	7.8	1.5
PENNSYLVANIA	.4		.3				.3		.3
NEW JERSEY	.4		.3				.3		.3
DELAWARE	.4		.3				.3		.3
MARYLAND	8.6	10.4	8.8	8.3	33.3	13.3	8.6	11.8	9.0
VIRGINIA	3.6	2.1	3.4				3.4	2.0	3.2
NORTH CAROLINA	2.1	6.3	2.7				2.1	5.9	2.6
SOUTH CAROLINA		2.1	.3					2.0	.3
GEORGIA	.4	2.1	.6	8.3		6.7	.7	2.0	.9
FLORIDA		2.1	.3					2.0	.3
ATLANTIC FLYWAY	16.3	33.4	18.5	16.6	33.3	20.0	16.0	33.5	18.7
MICHIGAN	.4		.3				.3		.3
MEXICO FEDERAL DISTRICT	.4		.3				.3		.3
MEXICO	.8		.6				.6		.6
TOTAL (PERCENT)	100.3	100.2	99.7	99.8	100.0	100.1	99.7	100.1	100.1
TOTAL RECOVERIES	280	48	328	12	3	15	292	51	343
BANDED IN: IOWA									
RECOVERED IN:									
SOUTH DAKOTA	100.0		100.0				100.0		100.0
CENTRAL FLYWAY	100.0		100.0				100.0		100.0
TOTAL (PERCENT)	100.0		100.0				100.0		100.0
TOTAL RECOVERIES	1		1				1		1

TABLE 7 DISTRIBUTION BY SEX OF CANVASBACK BANC RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN NINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANCED IN: WASHINGTON												
RECOVERED IN:												
BRITISH COLUMBIA		20.0	14.3								14.3	10.0
ALASKA-CANADA		20.0	14.3								14.3	10.0
WASHINGTON	100.0	60.0	71.4	100.0	100.0	100.0				100.0	71.4	80.0
CALIFORNIA		20.0	14.3								14.3	10.0
PACIFIC FLYWAY	100.0	80.0	85.7	100.0	100.0	100.0				100.0	85.7	90.0
TOTAL (PERCENT)	100.0	100.0	100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES	2	5	7	1	2	3				3	7	10
BANCED IN: OREGON												
RECOVERED IN:												
ALASKA				20.0		11.1				12.5		3.6
BRITISH COLUMBIA	33.3		5.3							12.5		3.6
ALBERTA		6.3	5.3								5.0	3.6
SASKATCHEWAN				20.0		11.1				12.5		3.6
ALASKA-CANADA	33.3	6.3	10.6	40.0		22.2				37.5	5.0	14.4
WASHINGTON		37.5	31.6								30.0	21.4
OREGON	66.7	56.3	57.9	60.0	100.0	77.8				62.5	65.0	64.3
PACIFIC FLYWAY	66.7	93.8	89.3	60.0	100.0	77.8				62.5	95.0	85.7
TOTAL (PERCENT)	100.0	100.1	100.1	100.0	100.0	100.0				100.0	100.0	100.1
TOTAL RECOVERIES	1	16	19	5	4	9				8	20	28
BANCED IN: CALIFORNIA												
RECOVERED IN:												
BRITISH COLUMBIA		.7	.5								.5	.3
ALBERTA	1.5	1.4	1.4	3.2	2.7	2.8				2.1	1.9	1.9
SASKATCHEWAN				3.2		.9				1.0		.3
ALASKA-CANADA	1.5	2.1	1.9	6.4	2.7	3.7				3.1	2.4	2.5
WASHINGTON	1.5		.5									.3
OREGON	4.5	5.7	5.3	3.2	2.7	2.8				4.1	4.6	4.5
IDAHO		2.1	1.4								1.4	1.0
CALIFORNIA	92.4	88.7	89.9	83.9	94.7	91.5				89.7	90.7	90.4
UTAH		.7	.5	3.2		.9					.5	.6
PACIFIC FLYWAY	98.4	97.2	97.6	50.3	97.4	95.2				95.8	97.2	96.8
NORTH DAKOTA				3.2		.9				1.0		.3
EASTERN WYOMING		.7	.5								.5	.3
CENTRAL FLYWAY		.7	.5	3.2		.9				1.0	.5	.6
TOTAL (PERCENT)	99.9	100.0	100.0	99.9	100.1	99.8				99.9	100.1	99.9
TOTAL RECOVERIES	66	141	207	31	75	106				97	216	313
BANCED IN: COLORADO												
RECOVERED IN:												
TEXAS	100.0									100.0		100.0
CENTRAL FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1
BANCED IN: TEXAS												
RECOVERED IN:												
OKLAHOMA					50.0	25.0					14.3	11.1
TEXAS		80.0	80.0	100.0	50.0	75.0				100.0	71.4	77.8
CENTRAL FLYWAY		80.0	80.0	100.0	100.0	100.0				100.0	85.7	88.9
LOUISIANA		20.0	20.0								14.3	11.1
MISSISSIPPI FLYWAY		20.0	20.0								14.3	11.1
TOTAL (PERCENT)		100.0	100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES		5	5	2	2	4				2	7	9
BANCED IN: KENTUCKY												
RECOVERED IN:												
MINNESOTA	100.0		100.0							100.0		100.0
MISSISSIPPI FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1
BANCED IN: MICHIGAN												
RECOVERED IN:												
SASKATCHEWAN	3.6	1.3	1.9							2.5	1.0	1.5
MANITOBA		1.3	1.0	8.3	4.5	5.9				2.5	2.1	2.2
ONTARIO	32.1	17.3	21.4	8.3	18.2	14.7				25.0	17.5	19.7
ALASKA-CANADA	35.7	15.9	24.3	16.6	22.7	20.6				30.0	20.6	23.4
NORTH DAKOTA	7.1	1.3	2.9		13.6	8.8				5.0	4.1	4.4
SOUTH DAKOTA	3.6	4.0	3.9		4.5	2.9				2.5	4.1	3.6

TABLE 7. DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE MOUNTING SEASON ARE PRESENTED AS A PERCENT—CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: MICHIGAN												
RECOVERED IN:												
OKLAHOMA	3.6		1.0							2.3		.7
TEXAS		1.3	1.0		4.3	2.9					2.1	1.5
CENTRAL FLYWAY	14.3	6.6	8.8		22.6	14.6				10.0	10.3	10.2
MINNESOTA	7.1	5.3	5.8	16.7	13.6	14.7				10.0	7.2	8.0
WISCONSIN		6.7	4.9	25.0	4.5	11.8				7.5	6.2	6.6
MICHIGAN	17.9	16.0	16.5	16.7	18.2	17.6				17.5	16.5	16.8
IOWA	3.6		1.0							2.5		.7
ILLINOIS		2.7	1.9								2.1	1.3
OHIO		6.7	4.9		4.5	2.9					6.2	4.4
TENNESSEE		9.3	6.8								7.2	5.1
LOUISIANA	3.6	2.7	2.9							2.5	2.1	2.2
MISSISSIPPI		1.3	1.0								1.0	.7
ALABAMA	3.6	1.3	1.9							2.5	1.0	1.5
MISSISSIPPI FLYWAY	35.8	52.0	47.6	58.4	40.8	47.0				42.5	49.5	47.5
NEW YORK	3.6	4.0	3.5							2.5	3.1	2.9
PENNSYLVANIA				8.3	4.5	5.9				2.5	1.0	1.5
MARYLAND	7.1	12.0	10.7	16.7	9.1	11.8				10.0	11.3	10.9
VIRGINIA	3.6	2.7	2.9							2.5	2.1	2.2
NORTH CAROLINA		2.7	1.9								2.1	1.3
ATLANTIC FLYWAY	14.3	21.4	19.4	25.0	13.6	17.7				17.5	19.6	19.0
TOTAL (PERCENT)	100.1	99.9	100.1	100.0	99.7	99.9				100.0	100.0	100.1
TOTAL RECOVERIES	28	75	103	12	22	34				40	97	137
BANDED IN: INDIANA												
RECOVERED IN:												
MANITOBA		100.0	33.3								100.0	33.3
ALASKA-CANADA		100.0	33.3								100.0	33.3
ILLINOIS	100.0		66.7							100.0		66.7
MISSISSIPPI FLYWAY	100.0		66.7							100.0		66.7
TOTAL (PERCENT)	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL RECOVERIES	2	1	3							2	1	3
BANDED IN: LOUISIANA												
RECOVERED IN:												
ALBERTA		2.4	1.5								1.7	1.4
SASKATCHEWAN	4.8	2.4	2.9	8.3	6.3	6.8				6.1	3.5	4.1
MANITOBA		4.9	3.9	16.7	6.3	9.1				6.1	5.2	5.4
ONTARIO				8.3	2.3					3.0		
ALASKA-CANADA	4.8	9.7	8.7	33.3	12.6	18.2				15.2	10.4	11.6
CALIFORNIA		1.2	1.0	8.3	3.1	4.5				3.0	1.7	2.0
NEVADA		1.2	1.0								.9	.7
PACIFIC FLYWAY		2.4	2.0	8.3	3.1	4.5				3.0	2.6	2.7
NORTH DAKOTA				8.3		2.3				3.0		.7
SOUTH DAKOTA		3.7	2.9								2.6	2.0
KANSAS					3.1	2.3					.9	.7
OKLAHOMA	4.8	1.2	1.9		6.3	4.5				3.0	2.6	2.7
TEXAS	4.8	3.7	3.5		6.3	4.5	100.0	100.0		3.0	5.2	4.7
CENTRAL FLYWAY	9.6	8.6	8.7	8.3	15.7	13.6	100.0	100.0		9.0	11.3	10.8
MINNESOTA	4.8	2.4	2.5	8.3	9.4	9.1				6.1	4.3	4.7
WISCONSIN	28.6	3.7	8.7	16.7	9.4	11.4				24.2	15.2	9.5
MICHIGAN	4.8		1.0							3.0		.7
IOWA		2.4	1.9		3.1	2.3					2.6	2.0
ILLINOIS		6.1	4.9	8.3	6.3	6.8				3.0	6.1	5.4
OHIO		1.2	1.0								.9	.7
ARKANSAS	4.8		1.0							3.0		.7
TENNESSEE	4.8		1.0							3.0		.7
LOUISIANA	35.3	57.3	52.4	16.7	34.4	29.5				27.3	50.4	45.3
MISSISSIPPI FLYWAY	81.1	73.1	74.8	50.0	62.6	59.1				69.6	69.5	69.7
MARYLAND		3.7	2.9								2.6	2.0
VIRGINIA		1.2	1.0								.9	.7
NORTH CAROLINA				3.1	2.3						.9	.7
ATLANTIC FLYWAY		4.9	3.5	3.1	2.3					4.4	3.4	
MICHIGAN	4.8		1.0							3.0		.7
VERA CRUZ		1.2	1.0								.9	.7
TAMPAULIPAS				3.1	2.3						.9	.7
MEXICO	4.8	1.2	2.0		3.1	2.3				3.0	1.8	2.1
TOTAL (PERCENT)	100.3	99.9	100.1	59.5	100.2	100.0	100.0	100.0		99.8	100.0	100.3
TOTAL RECOVERIES	21	82	103	12	32	44	1	1		33	113	146
BANDED IN: MISSISSIPPI												
RECOVERED IN:												
IOWA	100.0		100.0							100.0		100.0
MISSISSIPPI FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1
BANDED IN: ALABAMA												
RECOVERED IN:												

TABLE 7. DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1927-1931) FROM WINTER BANDING ACCOMPLISHED IN HORN REFERENCE AREAS. RECOVERIES OF NORMAL WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: ALABAMA												
RECOVERED IN:												
ALASKA				4.3		2.8					2.6	1.7
MANITOBA		6.3	4.5								2.6	1.7
ONTARIO				4.3		2.8					2.6	1.7
ALASKA-CANADA		6.3	4.5			8.6					7.8	5.1
SOUTH DAKOTA				7.7	4.3	5.6				5.0	2.6	3.4
OKLAHOMA	16.7		4.5							5.0		1.7
CENTRAL FLYWAY	16.7		4.5	7.7	4.3	5.6				10.0	2.6	5.1
MINNESOTA		6.3	4.5	7.7	8.7	8.3				5.0	7.7	6.8
WISCONSIN	16.7	12.5	13.6	15.4		5.6				15.0	5.1	8.5
MICHIGAN	33.3		9.1							10.0		3.4
IOWA		6.3	4.5								2.6	1.7
MISSOURI		6.3	4.5	7.7		2.8				5.0	2.6	3.4
KENTUCKY		6.3	4.5		4.3	2.8					5.1	3.4
TENNESSEE				15.4	8.7	11.1				10.0	5.1	3.4
LOUISIANA		6.3	4.5	7.7		2.8				5.0	2.6	3.4
ALABAMA	33.3	56.0	45.5	30.8	65.2	52.8	100.0		100.0	35.0	59.0	50.8
MISSISSIPPI FLYWAY	83.3	94.0	93.7	86.7	86.9	86.2	100.0		100.0	85.0	89.8	86.2
MARYLAND				7.7		2.8				5.0		1.7
ATLANTIC FLYWAY				7.7		2.8				5.0		1.7
TOTAL (PERCENT)	100.0	100.3	99.7	100.1	99.8	100.2	100.0		100.0	100.0	100.2	100.1
TOTAL RECOVERIES	6	16	22	13	23	36	1		1	20	39	59
BANDED IN: N.W. YCRK												
RECOVERED IN:												
DISTRICT OF MACKENZIE	1.0		.3							.8		.2
SASKATCHEWAN	1.0	.5	.6		1.8	1.1				.8	.7	.7
MANITOBA	2.9	3.6	3.4		5.4	3.4				2.3	4.0	3.4
ONTARIO	8.9	12.3	11.2	12.9	7.1	9.2				9.8	11.2	10.8
QUEBEC		.5	.3								.4	.2
ALASKA-CANADA	13.7	16.9	15.8	12.9	14.3	13.7				13.7	16.3	15.3
OREGON	1.0		.3							.8		.2
CALIFORNIA					1.8	1.1					.4	.2
PACIFIC FLYWAY	1.0		.3		1.8	1.1				.8	.4	.4
NORTH DAKOTA	3.9	3.2	3.4		10.7	6.9				3.0	4.7	4.2
SOUTH DAKOTA	1.0	1.8	1.6		1.8	1.1				.8	1.8	1.5
NEBRASKA		.5	.3								.4	.2
TEXAS	1.0	.5	.6							.8	.4	.5
CENTRAL FLYWAY	5.9	6.0	5.9		12.5	8.0				4.6	7.3	6.4
MINNESOTA	6.9	5.9	6.2	16.1	3.6	8.0				9.0	5.4	6.6
WISCONSIN	5.9	5.0	5.3	3.2	1.8	2.3				5.3	4.3	4.6
MICHIGAN	10.9	4.1	6.2	3.2	3.6	3.4				9.0	4.0	5.6
IOWA	1.0	.5	.6							.8	.4	.5
ILLINOIS	1.0	1.4	1.2							.8	1.1	1.0
INDIANA		.5	.3								.4	.2
OHIO	2.0	1.8	1.9	3.2	1.8	2.3				2.3	1.8	2.0
KENTUCKY		.5	.3	3.2		1.1				.8	.4	.5
TENNESSEE		.9	.3								.4	.2
LOUISIANA		.5	.3								.4	.2
MISSISSIPPI		.5	.2								.4	.2
MISSISSIPPI FLYWAY	27.6	21.2	22.9	28.9	10.8	17.1				28.0	19.0	21.6
CONNECTICUT		.9	.6		1.8	1.1					1.1	.7
NEW YORK	27.5	35.5	32.9	35.5	26.8	29.9				29.3	33.7	32.3
PENNSYLVANIA	3.9	1.9	2.5	6.5	3.6	4.6				4.5	2.2	2.9
WEST VIRGINIA	1.0		.3							.8		.2
NEW JERSEY	1.0		.3							.8		.2
MARYLAND	13.7	14.1	14.0		9.7	25.0	19.5			12.8	16.3	15.2
VIRGINIA	2.9	3.2	3.1	6.5	3.6	4.6				3.8	3.3	3.4
NORTH CAROLINA	2.0	.9	1.2							1.5	.7	1.0
ATLANTIC FLYWAY	52.0	56.4	54.9	58.2	60.8	59.7				53.5	57.3	55.9
TOTAL (PERCENT)	100.2	100.5	99.8	100.0	100.2	99.6				100.6	100.3	99.6
TOTAL RECOVERIES	102	220	322	31	56	87				133	276	409
BANDED IN: E. NEW YCRK												
RECOVERED IN:												
ALASKA		.1	.1								.1	.1
DISTRICT OF MACKENZIE		.1	.1							.2	.1	.1
ALBERTA	.3		.1								.8	.9
SASKATCHEWAN		1.1	1.0	.7	.7	.7				3.4	2.5	2.8
MANITOBA	2.6	2.4	2.4	5.6	3.4	4.5				7.5	7.8	7.7
ONTARIO	7.9	8.0	7.9	6.3	6.8	6.6				.9	.5	.7
QUEBEC	.8	.5	.6	1.4	.7	1.0					.4	.2
ALASKA-CANADA	12.4	12.2	12.2	14.0	11.6	12.8				12.8	12.0	12.4
CALIFORNIA	.3	.2	.3							.2	.2	.2
PACIFIC FLYWAY	.3	.2	.3							.2	.2	.2
NORTH DAKOTA	3.6	1.1	1.9	2.8	.7	1.7				3.4	1.0	1.9
SOUTH DAKOTA	1.5	1.2	1.3	4.2		2.1				2.3	1.0	1.5
KANSAS		.1	.1								.1	.1
OKLAHOMA		.1	.1								.1	.1
TEXAS	.3	.2	.3		.7	.3				.2	.3	.3
CENTRAL FLYWAY	5.4	2.7	3.7	7.0	1.4	4.1				5.9	2.5	3.9

TABLE 7. DISTRIBUTION BY SEX OF CANVASBACK BANC RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILDO BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	M55-1	M552-N	M551-N	M55-1	M552-N	M551-N	M55-1	M552-N	M551-N	M55-1	M552-N	M551-N
BANCED IN: E NEW YORK												
RECOVERED IN:												
MINNESOTA	5.1	2.6	3.4	10.5	10.3	10.4				6.6	3.8	4.8
WISCONSIN	5.1	4.6	4.8	4.2	4.8	4.5				4.9	4.6	4.7
MICHIGAN	4.4	2.7	3.3	1.4	2.1	1.7				3.6	2.6	3.0
IOWA	1.3	.1	.2							.2	.1	.1
ILLINOIS	1.3	.4	.7		.7	.3				.9	.4	.6
INDIANA	.3	.1								.2	.1	.1
OHIO	.5	.6	.6	2.1	1.4	1.7				.9	.7	.8
MISSOURI	.3		.1	.7		.3				.4		.1
KENTUCKY	.5	.2	.3							.4	.2	.3
TENNESSEE		.1	.1		.7	.3					.2	.1
LOUISIANA	.5	.1	.3	.7		.3				.6	.1	.3
ALABAMA	.5	.2	.3							.4	.2	.3
MISSISSIPPI FLYWAY	18.8	11.6	14.2	19.6	20.0	19.5				19.1	12.9	15.2
CONNECTICUT	.3	.2	.3	.7		.3				.4	.2	.3
RHODE ISLAND		.1	.1								.1	.1
NEW YORK	43.3	51.7	49.0	40.6	42.5	41.5	50.0	50.0		42.6	50.3	47.5
PENNSYLVANIA	1.0	.2	.5	1.4	.7	1.0				1.1	.3	.6
NEW JERSEY	1.8	2.1	2.0	1.4	2.7	2.1				1.7	2.2	2.0
DELAWARE		.2	.2								.2	.1
MARYLAND	14.4	15.2	14.9	14.7	17.8	16.3	50.0	50.0		14.4	15.6	15.2
VIRGINIA	2.3	2.1	2.2	2.7	1.4	.7				1.7	2.2	2.0
NORTH CAROLINA		.9	.6	.7	.7					.2	.8	.6
SOUTH CAROLINA	.3		.1							.2		.1
FLORIDA		.1	.1								.1	.1
ATLANTIC FLYWAY	63.4	72.8	76.0	59.5	67.1	63.3	100.0	100.0		62.3	72.0	68.6
TOTAL (PERCENT)	100.3	99.5	100.4	100.1	100.1	99.7	100.0	100.0		100.3	99.6	100.3
TOTAL RECOVERIES	390	805	1195	143	146	289	2	2		533	956	1486
BANCED IN: WEST VIRGINIA												
RECOVERED IN:												
VIRGINIA		100.0	100.0								100.0	100.0
ATLANTIC FLYWAY		100.0	100.0								100.0	100.0
TOTAL (PERCENT)		100.0	100.0								100.0	100.0
TOTAL RECOVERIES		1	1								1	1
BANCED IN: NEW JERSEY												
RECOVERED IN:												
MANITOWA	2.3	1.1	1.5	9.1	9.1	9.1				4.6	2.7	3.4
ONTARIO	4.7	6.7	6.1	9.1		4.5				6.2	5.4	5.7
QUEBEC		1.1	.8								.6	.6
ALASKA-CANADA	7.0	8.9	8.4	18.2	9.1	13.6				10.8	9.0	9.7
CALIFORNIA	2.3	2.2	2.3							1.5	1.8	1.7
PACIFIC FLYWAY	2.3	2.2	2.3							1.5	1.8	1.7
NORTH DAKOTA		2.2	1.5								1.8	1.1
SOUTH DAKOTA	4.7	3.4	3.8	4.5	4.5	4.5				4.6	3.6	4.0
EASTERN COLORADO		1.1	.8								.9	.6
KANSAS				4.5		2.3				1.5		.6
TEXAS				4.5		2.3				1.5		.6
CENTRAL FLYWAY	4.7	6.7	6.1	13.5	4.5	9.1				7.6	6.3	6.9
MINNESOTA	7.0	2.2	3.8		13.6	6.8				4.6	4.5	4.5
WISCONSIN	2.3	5.6	4.5		9.1	4.5				1.5	6.3	4.5
MICHIGAN		6.7	4.5	4.5	4.5	4.5				1.5	6.3	4.5
IOWA		1.1	.8								.9	.6
ILLINOIS		1.1	.8								.9	.6
OHIO		1.1	.8								.9	.6
LOUISIANA	2.3	1.1	1.5							1.5	.9	1.1
ALABAMA		1.1	.8								.9	.6
MISSISSIPPI FLYWAY	11.6	20.0	17.5	4.5	27.2	15.8				9.1	21.6	17.0
MASSACHUSETTS		1.1	.8								.9	.6
CONNECTICUT	2.3									1.5		.6
NEW YORK	7.0	5.6	6.1	13.6	4.5	9.1				9.2	5.4	6.8
PENNSYLVANIA	2.3		.8	4.5		2.3				3.1		1.1
NEW JERSEY	16.3	24.7	22.0	9.1	27.3	18.2				13.8	25.2	21.0
DELAWARE		1.1	.8								.9	.6
MARYLAND	44.2	28.1	33.3	31.8	27.3	29.5				40.0	27.9	32.4
VIRGINIA	2.3	1.1	1.5	4.5		2.3				3.1	.9	1.7
ATLANTIC FLYWAY	74.4	61.7	66.1	63.5	59.1	61.4				70.7	61.2	64.8
TOTAL (PERCENT)	100.0	99.5	100.4	55.7	99.9	99.9				99.7	99.9	100.1
TOTAL RECOVERIES	43	89	132	22	22	44				65	111	176
BANCED IN: DELAWARE												
RECOVERED IN:												
ALBERTA		3.0	1.5								1.7	1.1
SASKATCHEWAN	1.7	1.0	1.3		6.8	4.2				.9	3.4	2.5
MANITOBA	8.6	2.0	4.5	6.5	8.1	7.5	50.0			8.5	4.6	6.0
ONTARIO		3.0	4.5	4.3	4.1	4.2				5.7	3.6	4.3
ALASKA-CANADA	17.2	9.0	12.2	10.8	19.0	15.9	50.0			15.1	13.1	13.9
CALIFORNIA		1.0	.6		1.4	.8					1.1	.7
PACIFIC FLYWAY		1.0	.6		1.4	.8					1.1	.7



TABLE 7 DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN MINDR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDED IN: DELAWARE												
RECOVERED IN:												
NORTH DAKOTA	5+2		1+9	4+3	1+4	2+5				4+7	+6	2+1
SOUTH DAKOTA					1+4	+8	50+0	25+0			1+1	+7
TEXAS					1+4	+8					+6	+4
CENTRAL FLYWAY	5+2		1+9	4+3	4+2	4+1	50+0	25+0		4+7	2+3	3+2
MINNESOTA	5+2	3+0	3+8	15+2	8+1	10+8	50+0	25+0		9+4	5+7	7+1
WISCONSIN	6+9	5+1	5+7	8+7	9+5	9+2				7+5	6+9	7+1
MICHIGAN	5+2	8+1	7+0		4+1	2+5				2+8	6+3	5+0
ILLINOIS		1+0	+6	2+2		+8				+9	+6	+7
MISSISSIPPI	1+7									+9		
ALABAMA	3+4		1+3				50+0		25+0	2+8		1+1
MISSISSIPPI FLYWAY	22+4	17+2	19+0	26+1	21+7	23+3	50+0	50+0	50+0	24+3	19+5	21+4
CONNECTICUT		1+0	+6							1+9	+6	+4
NEW YORK	1+7	1+0	1+3	2+2		+8				1+9	+6	1+1
PENNSYLVANIA	1+7			2+2		+8				1+9		+7
NEW JERSEY	3+4	2+0	2+4		4+1	2+5				1+9	2+9	
DELAWARE	8+6	4+0	5+7	4+3	5+4	5+0				6+6	4+6	5+3
MARYLAND	32+8	54+5	46+5	41+3	39+2	40+0				35+8	47+4	43+1
VIRGINIA	6+9	5+1	5+7	4+3	4+1	4+2				5+7	4+6	5+0
NORTH CAROLINA		5+1	7+2	2+2	1+4	1+7				4+9	3+4	2+4
ATLANTIC FLYWAY	55+1	72+7	66+1	56+5	54+2	55+0				54+7	66+1	60+6
SONORA				2+2		+8				+9		+4
MEXICO				2+2		+8				+9		+4
TOTAL (PERCENT)	99+9	99+9	99+8	99+9	100+5	99+9	100+0	100+0	100+0	99+7	100+1	100+2
TOTAL RECOVERIES	58	99	157	46	74	120	2	2	4	106	175	281
BANDED IN: N MARYLAND												
RECOVERED IN:												
ALASKA					1+3	+7					+3	+2
ALBERTA		+3	+2	1+6		+7				+5	+3	+3
SASKATCHEWAN	1+9	+3	+8	1+6	1+3	1+4				1+8	+5	1+0
MANITOBA	2+5	3+8	3+4	6+6	7+8	7+2				3+7	4+5	4+2
ONTARIO	3+2	5+6	4+8	3+3	3+9	3+6				3+2	5+3	4+6
QUEBEC					1+3	+7				+3	+2	
ALASKA-CANADA	7+6	10+0	9+2	13+1	15+6	14+3				9+2	11+2	10+5
WASHINGTON			+2							+5		+2
OREGON	+6	+3	+2								+3	+2
IDAHO	+6		+2							+5		+2
CALIFORNIA		+9	+6	1+6		+7				+5	+8	+7
UTAH				1+6		+7				+5		+2
PACIFIC FLYWAY	1+2	1+2	1+2	3+2		1+4				2+0	1+1	1+5
EASTERN MONTANA		+3	+2								+3	+2
NORTH DAKOTA	3+8	2+5	2+9	3+3	3+9	3+6				3+7	2+8	3+1
SOUTH DAKOTA	1+9	+6	1+0	3+3	1+3	2+2				2+3	+8	1+3
EASTERN WYOMING		+3	+2								+3	+2
KANSAS		+3	+2								+3	+2
TEXAS		+3	+2								+3	+2
CENTRAL FLYWAY	5+7	4+3	4+7	6+6	5+2	5+8				6+0	4+8	5+2
MINNESOTA	13+4	4+4	7+3	19+7	7+8	13+0				15+1	5+0	8+6
WISCONSIN	8+9	7+5	8+0	3+3	6+5	5+1				7+3	7+3	7+3
MICHIGAN	5+1	5+6	5+5		3+9	2+2				3+7	5+3	4+7
IOWA		+6	+4								+5	+3
ILLINOIS	+6	+3	+4	1+6	2+6	2+2				+9	+8	+8
INDIANA	+6		+2							+5		+2
OHIO		+6	+4		1+3	+7					+8	+5
LOUISIANA		+9	+6								+8	+5
MISSISSIPPI FLYWAY	28+6	19+9	22+8	24+6	22+1	23+2				27+5	20+5	22+9
VERMONT		+3	+2								+3	+2
CONNECTICUT		+3	+2								+3	+2
RHODE ISLAND	+6		+2							+5		+2
NEW YORK	1+9	1+6	1+7	1+6	2+6	2+2				1+8	1+8	1+8
PENNSYLVANIA		+6	+4	1+6	1+3	1+4				+5		+7
NEW JERSEY	+6	1+3	1+0							+5	1+0	+6
MARYLAND	47+1	55+0	52+4	44+3	50+6	47+8				46+3	54+2	51+4
VIRGINIA	3+2	2+8	2+9	1+6	1+3	1+4				2+8	2+5	2+6
NORTH CAROLINA	3+2	2+2	2+5	3+3	1+3	2+2				3+2	2+0	2+4
SOUTH CAROLINA		+3	+2								+3	+2
ATLANTIC FLYWAY	56+6	64+4	61+7	52+4	57+1	55+0				55+6	63+2	60+5
TOTAL (PERCENT)	99+7	99+8	99+6	99+9	100+0	99+7				100+3	100+8	100+6
TOTAL RECOVERIES	157	320	477	61	77	138				218	397	615
BANDED IN: S MARYLAND												
RECOVERED IN:												
DISTRICT OF MACKENZIE	+8		+3							+5		+2
ALBERTA		+9	+6								+8	+4
SASKATCHEWAN	1+7	+4	+9							1+1	+3	+6
MANITOBA	2+5	4+0	3+5	4+7	5+5	5+2				3+3	4+5	4+1
ONTARIO	3+4	4+9	4+4	3+1	1+6	2+1	33+3	25+0		3+3	3+9	3+7
QUEBEC				1+6		+5				+5		+2
ALASKA-CANADA	8+4	10+2	9+7	9+4	7+1	7+6	33+3	25+0		8+7	9+3	9+2
WASHINGTON					+8	+5					+3	+2
CALIFORNIA	+8		+3							+5		+2

TABLE 7 DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT—CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: S MARYLAND												
RECOVERED IN:												
NEVADA		.4	.3								.3	.2
PACIFIC FLYWAY	.8	.4	.6		.8	.5				.5	.6	.6
EASTERN MONTANA	.8		.3							.5		.2
NORTH DAKOTA	.8	1.8	1.5	1.6	1.6	1.6				1.1	1.7	1.5
SOUTH DAKOTA	3.4	.4	1.5	3.1	2.4	2.6				3.3	1.1	1.9
KANSAS	.8		.3							.5		.2
TEXAS	.8	.4	.6		1.6	1.0				.5	.8	.7
CENTRAL FLYWAY	6.6	2.6	4.2	4.7	5.6	5.2				5.9	3.6	4.5
MINNESOTA	5.9	4.0	4.7	14.1	9.4	11.0				8.7	5.9	6.9
WISCONSIN	5.0	7.1	6.4	6.3	6.3	6.3	33.3	25.0		5.4	7.0	6.5
MICHIGAN	6.7	5.3	5.8	4.7	1.6	2.6				6.0	3.9	4.6
IOWA		1.3	.9		.8	.5				1.1		.7
ILLINOIS	2.5	1.8	2.0	1.6	1.6	1.6				2.2	1.7	1.9
OHIO	.8	.4	.6							.5	.3	.4
MISSOURI		.4	.3									.2
KENTUCKY	.8		.3							.5		.2
MISSISSIPPI				.8	.5						.3	.2
MISSISSIPPI FLYWAY	21.7	20.3	21.0	26.7	20.5	22.5	33.3	25.0		23.3	20.5	21.6
MASSACHUSETTS				1.6		.5				.5		.2
NEW YORK	1.7	1.8	1.7							1.1	1.1	1.1
PENNSYLVANIA	1.7	.4	.5	1.6		.5				1.6	.3	.7
NEW JERSEY	.8	3.6	2.6	1.6	3.9	3.1				1.1	3.7	2.8
DELAWARE		1.3	.9								.8	.6
MARYLAND	45.4	45.8	45.6	42.2	47.2	45.5	100.0		25.0	44.6	45.9	45.5
VIRGINIA	6.7	10.2	9.0	6.3	9.4	8.4				6.2	9.9	8.7
NORTH CAROLINA	5.0	3.1	3.8	6.3	3.9	4.7	33.3	25.0		5.4	3.7	4.3
SOUTH CAROLINA	.8		.3							.5		.2
GEORGIA				.8	.5						.3	.2
FLORIDA				.8	.5						.3	.2
ATLANTIC FLYWAY	62.1	66.2	64.8	59.6	66.0	63.7	100.0	33.3	50.0	61.3	66.0	64.5
TOTAL (PERCENT)	99.6	99.7	100.3	100.4	100.0	99.7	100.0	99.9	100.0	99.7	100.0	100.4
TOTAL RECOVERIES	119	225	344	64	127	191	1	3	4	184	355	539
BANDED IN: DISTRICT OF COLUMBIA												
RECOVERED IN:												
MINNESOTA		25.0	25.0								25.0	25.0
OHIO		25.0	25.0								25.0	25.0
MISSISSIPPI FLYWAY		50.0	50.0								50.0	50.0
MARYLAND		25.0	25.0								25.0	25.0
VIRGINIA		25.0	25.0								25.0	25.0
ATLANTIC FLYWAY		50.0	50.0								50.0	50.0
TOTAL (PERCENT)		100.0	100.0								100.0	100.0
TOTAL RECOVERIES		4	4								4	4
BANDED IN: VIRGINIA												
RECOVERED IN:												
SASKATCHEWAN		2.2	1.5	5.4	5.6	5.4				2.5	2.9	2.7
MANITOBA	3.1	2.2	2.5		2.8	1.1				1.7	2.3	2.1
ONTARIO	4.6	5.2	5.0		2.8	1.1				2.5	4.7	3.8
ALASKA-CANADA	7.7	9.6	9.0	5.4	11.2	7.6				6.7	9.9	8.6
NEVADA		.7	.5								.6	.3
PACIFIC FLYWAY		.7	.5								.6	.3
NORTH DAKOTA	3.1	3.0	3.0	5.4	2.8	4.3				4.1	2.9	3.4
SOUTH DAKOTA				3.6	2.8	3.3				1.7	.6	1.0
TEXAS				1.8		1.1				.8		.3
CENTRAL FLYWAY	3.1	3.0	3.0	10.8	5.6	8.7				6.6	3.5	4.7
MINNESOTA		5.2	3.5	8.9	11.1	9.8				4.1	6.4	5.5
WISCONSIN	4.6	6.7	6.0	5.4	9.3	6.5				5.0	7.0	6.2
MICHIGAN	3.1	7.4	6.0		5.6	2.2				1.7	7.0	4.8
IOWA		2.2	1.5								1.8	1.0
ILLINOIS		.7	.5								.6	.3
OHIO	1.5	1.5	1.5							.8	1.2	1.0
ARKANSAS		.7	.5								.6	.3
LOUISIANA				1.8		1.1				.8		.3
ALABAMA	1.5	.5								.8		.3
MISSISSIPPI FLYWAY	10.7	24.4	20.0	16.1	25.0	19.6				13.2	24.6	19.7
NEW HAMPSHIRE	1.5	.5								.8		.3
CONNECTICUT		1.5	1.0								1.2	.7
NEW YORK	1.5	1.5	1.5	1.8		1.1				1.7	1.2	1.4
PENNSYLVANIA		1.5	1.0								1.2	.7
NEW JERSEY		1.5	1.0	1.8	2.8	2.2				.8	1.8	1.4
DELAWARE		.7	.5								.6	.3
MARYLAND	32.3	24.4	27.0	25.0	16.7	21.7				28.9	22.8	25.3
VIRGINIA	24.6	24.4	24.5	28.6	30.6	29.3				26.4	25.7	26.0
NORTH CAROLINA	16.9	9.9	9.5	16.7	8.3	9.8				14.0	8.6	9.6
SOUTH CAROLINA		.7	.5								.6	.3
FLORIDA	1.5	.5								.8		.3
ATLANTIC FLYWAY	78.3	62.1	67.5	67.9	56.4	64.1				73.4	61.5	66.5
TOTAL (PERCENT)	99.8	99.8	100.0	100.2	100.2	100.0				99.9	100.1	99.6

TABLE 7 DISTRIBUTION BY SEX OF CANVASBACK BANC RECOVERIES (1923-71) FROM WINTER BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANCED IN: VIRGINIA RECOVERED IN: TOTAL RECOVERIES	65	135	200	56	36	92				121	171	292
BANCED IN: NORTH CAROLINA RECOVERED IN:												
SASKATCHEWAN	6.7		2.2							3.2		1.2
MANITOBA		6.7	4.4	12.5	4.8	8.1				6.5	5.9	6.1
ONTARIO	6.7	3.3	4.4		4.8	2.7				3.2	3.9	3.7
ALASKA-CANADA	13.4	10.0	11.0	12.5	9.6	10.8				12.9	9.6	11.0
NORTH DAKOTA		6.7	4.4		4.8	2.7					5.9	3.7
SOUTH DAKOTA		3.3	2.2	6.3		2.7				3.2	2.0	2.4
CENTRAL FLYWAY		10.0	6.6	6.3	4.8	5.4				3.2	7.9	6.1
MINNESOTA		3.3	2.2	12.5	6.5	10.8				6.5	5.9	6.1
WISCONSIN	6.7	16.7	13.3	25.0		10.8				16.1	9.6	12.2
MICHIGAN	6.7		2.2	6.3	9.5	8.1				6.5	3.9	4.9
MISSISSIPPI FLYWAY	13.4	20.0	17.7	43.8	19.0	29.7				29.1	19.6	23.2
MARYLAND	26.7	10.0	15.6		28.6	16.2				12.9	17.6	15.9
VIRGINIA		6.7	4.4	6.3	9.5	8.1				3.2	7.0	6.1
NORTH CAROLINA	33.3	43.3	40.0	31.3	23.8	27.0				32.3	35.3	34.1
SOUTH CAROLINA	6.7		2.2							3.2		1.2
GEORGIA	6.7		2.2							3.2		1.2
FLORIDA					4.8	2.7					2.0	1.2
ATLANTIC FLYWAY	73.4	60.0	64.4	37.6	66.7	54.0				54.8	62.7	59.7
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 15	100.0 30	99.7 45	100.0 16	100.1 21	99.9 37				100.0 31	100.0 51	100.0 82
BANCED IN: SOUTH CAROLINA RECOVERED IN:												
MINNESOTA					33.3	20.0					33.3	14.3
MICHIGAN					33.3	20.0					33.3	14.3
MISSISSIPPI FLYWAY					66.6	60.0					66.6	26.6
VIRGINIA				50.0		20.0				25.0		14.3
SOUTH CAROLINA	100.0		100.0	50.0	33.3	40.0				75.0	33.3	57.1
ATLANTIC FLYWAY	100.0		100.0	100.0	33.3	60.0				100.0	33.3	71.4
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 2		100.0 2	100.0 2	99.9 3	100.0 5				100.0 4	99.9 3	100.0 7
BANCED IN: GEORGIA RECOVERED IN:												
MARYLAND	100.0		100.0							100.0		100.0
ATLANTIC FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1		100.0 1							100.0 1		100.0 1
BANCED IN: FLORIDA RECOVERED IN:												
ONTARIO					50.0	33.3					50.0	33.3
ALASKA-CANADA					50.0	33.3					50.0	33.3
WISCONSIN				100.0		33.3				100.0		33.3
MISSISSIPPI FLYWAY				100.0		33.3				100.0		33.3
FLORIDA					50.0	33.3					50.0	33.3
ATLANTIC FLYWAY					50.0	33.3					50.0	33.3
TOTAL (PERCENT) TOTAL RECOVERIES				100.0 1	100.0 2	99.9 3				100.0 1	100.0 2	99.9 3

TABLE 8 DISTRIBUTION BY SEX OF CANVASBACK BIRD RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINGR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDING IN: MANITOBA RECOVERED IN: MINNESOTA MISSISSIPPI FLYWAY				100.0 100.0		50.0 50.0				100.0 100.0		33.3 33.3
MARYLAND VIRGINIA ATLANTIC FLYWAY		100.0 100.0	100.0 100.0		100.0 100.0	50.0 50.0					50.0 50.0 100.0	33.3 33.3 66.6
TOTAL (PERCENT) TOTAL RECOVERIES		100.0 1	100.0 1	100.0 1	100.0 1	100.0 2				100.0 1	100.0 2	99.9 3
BANDING IN: ONTARIO RECOVERED IN: MANITOBA ALASKA-CANADA		20.0 20.0	16.7 16.7								20.0 20.0	16.7 16.7
WISCONSIN MICHIGAN MISSISSIPPI FLYWAY	100.0 100.0	20.0 20.0	16.7 16.7 33.4							100.0 100.0	20.0 20.0	16.7 16.7 33.4
NEW YORK MARYLAND ATLANTIC FLYWAY		40.0 20.0 60.0	33.3 16.7 50.0								40.0 20.0 60.0	33.3 16.7 50.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1	100.0 5	100.1 6							100.0 1	100.0 5	100.1 6
BANDING IN: WASHINGTON RECOVERED IN: WASHINGTON OREGON PACIFIC FLYWAY	100.0 100.0		100.0 100.0	100.0 100.0	100.0 100.0					100.0 100.0	100.0 100.0	50.0 50.0 100.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1		100.0 1	100.0 1	100.0 1					100.0 1	100.0 1	100.0 2
BANDING IN: OREGON RECOVERED IN: ALASKA ALBERTA SASKATCHEWAN ALASKA-CANADA		7.1 7.1	5.0 5.0	40.0 40.0	22.2 25.0 33.3	11.1 11.1				18.2 18.2	5.6 11.2	3.4 6.9 13.7
WASHINGTON OREGON CALIFORNIA PACIFIC FLYWAY	23.3 16.7 100.0	21.4 42.9 85.7	15.0 35.0 90.0	20.0 40.0 60.0	50.0 25.0 75.0	33.3 33.3 66.6				54.5 27.3 81.8	16.7 27.8 83.4	10.3 37.9 82.7
EASTERN MONTANA CENTRAL FLYWAY		7.1 7.1	5.0 5.0								5.6 5.6	3.4 3.4
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 6	99.9 14	100.0 20	100.0 5	100.0 4	99.9 9				100.0 11	100.2 19	99.8 29
BANDING IN: IDAHO RECOVERED IN: ALBERTA SASKATCHEWAN ALASKA-CANADA		2.5 2.5 5.0	2.1 2.1 4.2								2.3 2.3 4.6	1.9 1.9 3.8
OREGON IDAHO CALIFORNIA UTAH ARIZONA PACIFIC FLYWAY	14.3 28.6 57.1	2.5 87.5 2.5	2.1 6.4 83.0 2.1 2.1	100.0 100.0 100.0	100.0 100.0 100.0		100.0 100.0	100.0 100.0		12.5 25.0 62.5	2.3 2.3 88.6 2.3 2.3	1.9 5.8 84.6 1.9 1.9
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 7	100.0 40	99.9 47	100.0 1	100.0 3	100.0 4	100.0 1	100.0 1		100.0 8	100.1 44	99.9 52
BANDING IN: CALIFORNIA RECOVERED IN: ALASKA ALBERTA ALASKA-CANADA		5.6 5.6	2.5 2.5 3.4	7.7 7.7	3.0 3.0					3.2 3.2 6.4	1.7 1.7 1.7	1.1 2.2 3.3
OREGON CALIFORNIA UTAH PACIFIC FLYWAY	94.4 94.4	10.0 82.5 2.5	6.9 86.2 94.8	92.3 92.3	100.0 100.0	97.0 97.0				93.5 93.5	6.7 88.3 1.7 96.7	4.4 90.1 1.1 95.6
EASTERN WYOMING CENTRAL FLYWAY		2.5 2.5	1.7 1.7								1.7 1.7	1.1 1.1
TOTAL (PERCENT)	100.0	100.0	99.9	100.0	100.0	100.0				99.9	100.1	100.0

TABLE 8 DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: CALIFORNIA RECOVERED IN: TOTAL RECOVERIES	18	40	58	13	20	33				31	60	91
BANDED IN: NEVADA RECOVERED IN: CALIFORNIA	87.5	100.0	88.9	100.0		100.0				94.1	100.0	94.4
NEVADA	12.5		11.1							5.9		5.6
PACIFIC FLYWAY	100.0	100.0	100.0	100.0		100.0				100.0	100.0	100.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 8	100.0 1	100.0 9	100.0 9		100.0 9				100.0 17	100.0 1	100.0 18
BANDED IN: MONTANA RECOVERED IN: ICAHM	100.0		100.0							100.0		100.0
PACIFIC FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1		100.0 1							100.0 1		100.0 1
BANDED IN: NORTH DAKOTA RECOVERED IN: CALIFORNIA		100.0	66.7								100.0	66.7
PACIFIC FLYWAY		100.0	66.7								100.0	66.7
ALABAMA	100.0		33.3							100.0		33.3
MISSISSIPPI FLYWAY	100.0		33.3							100.0		33.3
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1	100.0 2	100.0 3							100.0 1	100.0 2	100.0 3
BANDED IN: NEBRASKA RECOVERED IN: CALIFORNIA				100.0	50.0						50.0	33.3
PACIFIC FLYWAY				100.0	50.0						50.0	33.3
NORTH DAKOTA		100.0	100.0	100.0	50.0					100.0	50.0	33.3
TEXAS	100.0	100.0	100.0	100.0	50.0					100.0	50.0	33.3
CENTRAL FLYWAY	100.0	100.0	100.0	100.0	50.0					100.0	50.0	66.6
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1	100.0 1	100.0 1	100.0 1	100.0 2					100.0 1	100.0 2	99.9 3
BANDED IN: COLORADO RECOVERED IN: SONORA				100.0	100.0						100.0	100.0
MEXICO				100.0	100.0						100.0	100.0
TOTAL (PERCENT) TOTAL RECOVERIES				100.0 1	100.0 1						100.0 1	100.0 1
BANDED IN: KANSAS RECOVERED IN: KANSAS	100.0		100.0							100.0		50.0
CENTRAL FLYWAY	100.0		100.0							100.0		50.0
ILLINOIS				100.0	100.0						100.0	50.0
MISSISSIPPI FLYWAY				100.0	100.0						100.0	50.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1		100.0 1	100.0 1	100.0 1					100.0 1	100.0 1	100.0 2
BANDED IN: OKLAHOMA RECOVERED IN: SASKATCHEWAN		50.0	50.0	33.3	20.0						40.0	28.6
ALASKA-CANADA		50.0	50.0	33.3	20.0						40.0	28.6
CALIFORNIA		50.0	50.0								20.0	14.3
PACIFIC FLYWAY		50.0	50.0								20.0	14.3
SOUTH DAKOTA				50.0	33.3	40.0				50.0	20.0	28.6
EASTERN COLORADO				50.0	33.3	20.0				50.0	20.0	14.3
TEXAS				100.0	66.6	70.0				100.0	40.0	57.2
CENTRAL FLYWAY				100.0	66.6	70.0				100.0	40.0	57.2
TOTAL (PERCENT) TOTAL RECOVERIES		100.0 2	100.0 2	100.0 2	99.9 3	100.0 5				100.0 2	100.0 5	100.1 7
BANDED IN: TEXAS RECOVERED IN: TEXAS	100.0		25.0							100.0		25.0

TABLE 8 DISTRIBUTION BY SEX OF CANYASACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, MILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: TEXAS RECOVERED IN: CENTRAL FLYWAY	100.0		25.0							100.0		25.0
MINNESOTA		33.3	25.0								33.3	25.0
ILLINOIS		33.3	25.0								33.3	25.0
MISSISSIPPI FLYWAY		66.6	50.0								66.6	50.0
NORTH CAROLINA		33.3	25.0								33.3	25.0
ATLANTIC FLYWAY		33.3	25.0								33.3	25.0
TOTAL (PERCENT) TOTAL RECOVERIES	100.0 1	99.9 3	100.0 4							100.0 1	99.9 3	100.0 4
BANDED IN: TENNESSEE RECOVERED IN: LOUISIANA MISSISSIPPI FLYWAY				100.0		100.0				100.0		100.0
TOTAL (PERCENT) TOTAL RECOVERIES				100.0 1		100.0 1				100.0 1		100.0 1
BANDED IN: MICHIGAN RECOVERED IN: SASKATCHEWAN MANITOBA ONTARIO ALASKA-CANADA	1.4 4.1 12.2 17.7	1.0 2.6 10.9 14.5	1.1 3.0 11.2 15.3	5.3	2.9 22.9	3.7 16.7				1.1 4.3 9.7 15.1	.9 2.6 12.3 15.8	.9 3.1 11.5 15.5
OREGON		.5	.4		5.7	3.7					.4	.3
CALIFORNIA					5.7	3.7					.9	.6
PACIFIC FLYWAY		.5	.4		5.7	3.7					1.3	.9
NORTH DAKOTA	4.1	.5	1.5		8.6	5.6				3.2	1.8	2.2
SOUTH DAKOTA	4.1	2.1	2.6	5.3	2.9	3.7				4.3	2.2	2.8
TEXAS	1.4	.5	.7							1.1	.4	.6
CENTRAL FLYWAY	9.6	3.1	4.8	5.3	11.5	9.3				8.6	4.4	5.6
MINNESOTA	6.8	7.8	7.5		15.8	11.4	13.0			8.6	8.3	8.4
WISCONSIN	5.4	9.3	8.2		10.5	8.6	9.3			6.5	9.2	8.4
MICHIGAN	8.1	9.8	9.4		15.8	2.9	7.4			9.7	8.8	9.0
IOWA		.5	.4								.4	.3
ILLINOIS	4.1	1.6	2.2		2.9	1.9				3.2	1.8	2.2
OHIO	1.4	3.1	2.6	5.3	5.7	5.6				2.2	3.5	3.1
MISSOURI	1.4		.4							1.1		.5
TENNESSEE		1.0	.7								.9	.6
LOUISIANA	1.4	1.0	1.1	5.3		1.9				2.2	.9	1.2
ALABAMA	5.4	3.6	4.1	5.3	8.6	7.4				5.4	4.4	4.7
MISSISSIPPI FLYWAY	34.0	37.7	36.6	58.0	40.1	46.5				38.9	38.2	38.2
NEW YORK	1.4	2.1	1.9	5.3		1.9				2.2	1.8	1.9
PENNSYLVANIA	2.7	.5	1.1		2.9	1.9				2.2	.9	1.2
NEW JERSEY		1.0	.7								.9	.6
DELAWARE		.5	.4								.4	.3
MARYLAND	28.4	29.0	28.8	26.3	11.4	16.7				28.0	26.3	26.8
VIRGINIA	4.1	8.8	7.5		2.9	1.9				3.2	7.9	6.5
NORTH CAROLINA		2.1	1.5								1.8	1.2
SOUTH CAROLINA	1.4		.4		2.9	1.9				1.1	.4	.6
GEORGIA	1.4		.4							1.1		.3
ATLANTIC FLYWAY	39.4	44.0	42.7	31.6	20.1	24.3				37.8	40.4	39.4
TOTAL (PERCENT) TOTAL RECOVERIES	100.7 74	99.8 193	99.8 267	100.2 19	100.3 35	106.5 54				100.4 93	100.1 228	99.6 321
BANDED IN: INDIANA RECOVERED IN: SASKATCHEWAN ONTARIO ALASKA-CANADA					20.0	14.3					5.6	3.3
NORTH DAKOTA	10.0	7.7	8.7							8.3	5.6	8.7
CENTRAL FLYWAY	10.0	7.7	8.7		20.0	14.3				8.3	11.2	10.0
MINNESOTA	20.0		8.7							16.7		8.7
WISCONSIN	20.0		8.7							16.7		8.7
ILLINOIS				50.0		14.3						
OHIO	10.0	7.7	8.7		20.0	14.3				8.3	3.3	
MISSOURI	10.0	7.7	4.3							8.3	11.1	10.0
KENTUCKY		7.7	4.3								5.6	3.3
TENNESSEE	10.0	15.4	13.0							8.3	11.1	10.0
LOUISIANA	20.0		8.7		20.0	14.3				16.7	5.6	10.0
ALABAMA		7.7	4.3								5.6	3.3
MISSISSIPPI FLYWAY	60.0	46.2	51.9	50.0	40.0	42.9				58.2	44.6	49.8
NEW JERSEY					20.0	14.3					5.6	3.3
MARYLAND		30.8	17.4		20.0	14.3					27.8	16.7
VIRGINIA		15.4	8.7	50.0		14.3				8.3	11.1	10.0
FLORIDA	10.0		4.3							8.3		3.3
ATLANTIC FLYWAY	10.0	46.2	30.4	50.0	40.0	42.9				16.6	44.5	33.3
TOTAL (PERCENT)	100.0	100.1	99.7	100.0	100.0	100.1				99.8	100.3	99.8

TABLE 8 DISTRIBUTION BY SEX OF CYNOSBACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILDO BROS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BROS			FEMALE BROS			UNKNOWN BROS			TOTAL BROS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: INDIANA RECOVERED IN: TOTAL RECOVERIES	10	13	23	2	5	7				12	18	30
BANDED IN: OHIO RECOVERED IN: ONTARIO	50.0		10.0							50.0		8.3
ALASKA-CANADA	50.0		10.0							50.0		8.3
MINNESOTA		25.0	20.0		50.0	50.0					10.0	8.3
WISCONSIN		12.5	10.0		50.0	50.0					20.0	16.7
MICHIGAN		37.5	30.0		100.0	100.0					50.0	41.7
MISSISSIPPI FLYWAY												
MARYLAND		37.5	30.0								30.0	25.0
VIRGINIA		25.0	20.0								20.0	16.7
SOUTH CAROLINA	50.0		10.0							50.0		8.3
ATLANTIC FLYWAY	50.0	62.5	60.0							50.0	50.0	50.0
TOTAL (PERCENT)	100.0	100.0	100.0		100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES	2	8	10		2	2				2	10	12
BANDED IN: LOUISIANA RECOVERED IN: MINNESOTA	50.0		14.3							50.0		14.3
WISCONSIN	50.0		14.3							50.0		14.3
LOUISIANA	100.0	100.0	71.4							100.0	100.0	71.4
MISSISSIPPI FLYWAY	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL (PERCENT)	100.0	100.0	100.0							100.0	100.0	100.0
TOTAL RECOVERIES	2	5	7							2	5	7
BANDED IN: ALABAMA RECOVERED IN: MINNESOTA				50.0		20.0				50.0		11.1
TENNESSEE		25.0	25.0								14.3	11.1
ALABAMA		75.0	75.0	50.0	100.0	80.0				50.0	85.7	77.8
MISSISSIPPI FLYWAY		100.0	100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL (PERCENT)		100.0	100.0	100.0	100.0	100.0				100.0	100.0	100.0
TOTAL RECOVERIES		4	4	2	3	5				2	7	9
BANDED IN: W NEW YORK RECOVERED IN: SASKATCHEWAN	1.5	5.5	3.3							1.2	4.5	2.7
MANITOBA	6.1	1.8	4.1							4.9	1.5	3.4
ONTARIO	9.1	9.1	9.1	13.3	16.7	14.8				9.9	10.4	10.1
ALASKA-CANADA	16.7	16.4	16.5	13.3	16.7	14.8				16.0	16.4	16.2
CALIFORNIA	1.5		.8							1.2		.7
PACIFIC FLYWAY	1.5		.8							1.2		.7
NORTH DAKOTA	4.5	1.8	3.3	6.7		3.7				4.9	1.5	3.4
SOUTH DAKOTA	1.5	1.8	1.7		8.3	3.7				1.2	3.0	2.0
CENTRAL FLYWAY	6.0	3.6	5.0	6.7	8.3	7.4				6.1	4.5	5.4
MINNESOTA	13.6	1.8	8.3	13.3		7.4				13.6	1.5	8.1
WISCONSIN	1.5	5.5	3.3	6.7	8.3	7.4				2.5	6.0	4.1
MICHIGAN	1.5	5.5	3.3	8.3	3.7					1.2	6.0	3.4
ILLINOIS		1.8	.8							1.5		.7
OHIO		1.8	.8		8.3	3.7					3.0	1.4
MISSISSIPPI FLYWAY	16.6	16.4	16.5	20.0	24.9	22.2				17.3	16.0	17.7
NEW YORK	34.8	25.5	30.6	26.7	33.3	29.6				33.3	26.9	30.4
PENNSYLVANIA	3.0	1.8	2.5							2.5	1.5	2.0
NEW JERSEY	1.5	3.6	2.5							1.2	3.0	2.0
MARYLAND	16.7	21.8	19.0	26.7		14.8				18.5	17.9	18.2
VIRGINIA	3.0	7.3	5.0							2.5	6.0	4.1
NORTH CAROLINA		3.6	1.7	6.7	16.7	11.1				1.2	6.0	3.4
ATLANTIC FLYWAY	59.0	63.6	61.3	60.1	50.0	55.5				59.2	61.3	60.1
TOTAL (PERCENT)	99.8	100.0	100.1	100.1	99.9	99.9				99.8	100.2	100.1
TOTAL RECOVERIES	66	55	121	15	12	27				81	67	148
BANDED IN: E NEW YORK RECOVERED IN: SASKATCHEWAN	1.2		.5	1.3	1.6	1.5				1.2	.3	.7
MANITOBA	3.0	3.4	3.2	2.6	1.6	2.2				2.9	3.0	3.0
ONTARIO	5.9	5.5	5.7	5.3	3.3	4.4				5.7	5.1	5.4
QUEBEC	.6	.4	.5		1.6	.7				.4	.7	.6
NEW BRUNSWICK		.4	.2								.3	.2
ALASKA-CANADA	10.7	9.7	10.1	9.2	8.1	8.8				10.2	9.4	9.9
OREGON	1.8	.4	1.0							1.2	.3	.7
CALIFORNIA	.6	.9	.7							.4	.7	.6
PACIFIC FLYWAY	2.4	1.3	1.7							1.6	1.0	1.3
NORTH DAKOTA	4.1	.4	2.0	6.6	4.9	5.8				4.9	1.4	3.0



TABLE 8 DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDING IN: E NEW YORK												
RECOVERED IN:												
SOUTH DAKOTA												
KANSAS	.6	.4	.5							.4	.3	.4
TEXAS	.6	.9	.2							.4	.7	.2
CENTRAL FLYWAY	5.3	1.7	3.2	6.6	4.9	5.8				5.7	2.4	4.0
MINNESOTA	4.1	4.3	4.2	6.6	9.8	8.0				4.9	5.4	5.2
WISCONSIN	2.4	5.5	4.2	9.2	3.3	6.6				4.5	5.1	4.8
MICHIGAN	3.0	3.0	3.0	1.3	3.3	2.2				2.4	3.0	2.8
ILL. INDIS	.6	.4	.5							.4	.3	.4
INDIANA	.6		.2							.4		.2
OHIO		.9			1.6	.7					1.0	.6
TENNESSEE	.6		.2							.4		.2
LOUISIANA				1.3		.7				.4		.2
ALABAMA					1.6	.7					.3	.2
MISSISSIPPI FLYWAY	11.3	14.1	12.8	18.4	19.6	18.9				13.4	15.1	14.6
CONNECTICUT					1.6	.7					.3	.2
RHODE ISLAND	.6	.4	.5							.4	.3	.4
NEW YORK	44.4	67.2	46.0	39.5	37.7	38.7				42.9	45.3	44.2
PENNSYLVANIA	2.4	1.7	2.0	1.3	1.6	1.5				2.0	1.7	1.8
NEW JERSEY	1.2	3.0	2.2		4.9	2.2				.8	3.4	2.2
MARYLAND	20.1	17.4	18.6	21.1	18.0	19.7				20.4	17.6	18.9
VIRGINIA	.6	3.0	2.0	1.3	.7	.7				.8	2.4	1.7
NORTH CAROLINA	1.2	.4	.7	2.6	3.3	2.9				1.6	1.0	1.3
ATLANTIC FLYWAY	70.5	73.1	72.0	65.8	67.1	66.4				68.9	72.0	70.7
TOTAL (PERCENT)	100.2	99.9	99.8	100.0	99.7	99.9				99.8	99.9	100.5
TOTAL RECOVERIES	169	235	404	76	61	137				245	296	541
BANDING IN: PENNSYLVANIA												
RECOVERED IN:												
MICHIGAN	100.0		100.0							100.0		100.0
MISSISSIPPI FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1
BANDING IN: WEST VIRGINIA												
RECOVERED IN:												
MINNESOTA				100.0		33.3				33.3		14.3
WISCONSIN					50.0	33.3					14.3	14.3
OHIO	50.0		25.0							33.3	25.0	14.3
TENNESSEE		50.0	25.0								25.0	14.3
MISSISSIPPI FLYWAY	50.0	50.0	50.0	100.0	50.0	66.6				66.6	50.0	57.2
WEST VIRGINIA					50.0	33.3					25.0	14.3
VIRGINIA		50.0	25.0								25.0	14.3
NORTH CAROLINA	50.0		25.0							33.3		14.3
ATLANTIC FLYWAY	50.0	50.0	50.0		50.0	33.3				33.3	50.0	42.9
TOTAL (PERCENT)	100.0	100.0	100.0	100.0	100.0	99.9				99.9	100.0	100.1
TOTAL RECOVERIES	2	2	4	1	2	3				3	4	7
BANDING IN: NEW JERSEY												
RECOVERED IN:												
ALBERTA	20.0		6.7							14.3		5.6
ONTARIO	20.0		6.7							14.3		5.6
ALASKA-CANADA	40.0		13.4							28.6		11.2
NORTH DAKOTA		10.0	6.7								9.1	5.6
CENTRAL FLYWAY		10.0	6.7								9.1	5.6
WISCONSIN	20.0		6.7							14.3		5.6
MICHIGAN	20.0	10.0	6.7	50.0		33.3				14.3	9.1	11.1
MISSISSIPPI FLYWAY	20.0	10.0	13.4	50.0		33.3				28.6	9.1	16.7
CONNECTICUT		10.0	6.7								9.1	5.6
NEW YORK		20.0	13.4								16.7	5.6
PENNSYLVANIA		10.0	6.7								9.1	5.6
NEW JERSEY	20.0	20.0	20.0		100.0	33.3				14.3	27.3	22.2
MARYLAND	20.0	10.0	13.4							14.3	9.1	11.1
VIRGINIA		10.0	6.7								9.1	5.6
ATLANTIC FLYWAY	40.0	80.0	66.7	50.0	100.0	66.6				42.9	81.9	66.8
TOTAL (PERCENT)	100.0	100.0	100.2	100.0	100.0	99.9				100.1	100.1	100.3
TOTAL RECOVERIES	5	10	15	2	1	3				7	11	18
BANDING IN: DELAWARE												
RECOVERED IN:												
SASKATCHEWAN		5.0	3.1								2.9	1.9
MANITOBA					13.3	9.5					5.7	3.8
ONTARIO		10.0	6.3	16.7	6.7	9.5				5.6	8.6	7.5
ALASKA-CANADA		15.0	9.4	16.7	20.0	15.0				5.6	17.2	13.2
CALIFORNIA					6.7	4.8					2.9	1.9
PACIFIC FLYWAY					6.7	4.8					2.9	1.9



TABLE 8. DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT--CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N	H55-1	H552-N	H551-N
BANDING IN: DELAWARE												
RECOVERED IN:												
MINNESOTA			6.3	16.7		4.8				5.8	5.7	5.7
WISCONSIN	8.3	10.0	9.4	33.3		9.5				18.7	5.7	5.7
MICHIGAN		15.0	9.4		13.3	9.5					14.3	9.4
IOWA					6.7	4.8					2.9	1.9
MISSOURI				16.7		4.8				5.6		1.9
MISSISSIPPI FLYWAY	8.3	35.0	25.1	86.7	20.0	33.4				27.9	28.6	28.3
NEW JERSEY												
DELAWARE	8.3	5.0	3.1		6.7	4.8					5.7	3.8
MARYLAND	8.3	30.0	50.0		13.3	9.5				5.8	8.6	7.5
VIRGINIA		5.0	3.1	16.7		4.8				5.6	31.4	39.6
NORTH CAROLINA		5.0	3.1							5.6	2.9	3.8
ATLANTIC FLYWAY	91.6	50.0	65.6	16.7	53.3	42.9				86.8	2.9	1.9
TOTAL (PERCENT)	99.9	100.0	100.1	100.1	100.0	100.1				100.3	100.2	100.0
TOTAL RECOVERIES	12	20	32	6	15	21				18	35	53
BANDING IN: MARYLAND												
RECOVERED IN:												
ALBERTA	1.0	.6	.7							.6	.4	.5
SASKATCHEWAN	1.0	1.2	1.1	1.4	2.8	2.2				1.2	1.6	1.4
MANITOBA	3.1	3.2	3.2	5.4	3.7	4.4				4.1	3.1	3.5
ONTARIO		2.9	2.3	1.4	2.8	2.2				.6	2.9	2.3
OLBEC		.1	.2								.2	.2
ALASKA-CANADA	5.1	6.2	7.5	8.2	9.3	8.8				6.5	8.4	7.9
WASHINGTON												
OREGON	1.0		.2	1.4		.5				.6		.2
CALIFORNIA	1.0		.2		.9	.5				.6	.2	.3
PACIFIC FLYWAY	2.0		.4	1.4	.9	1.0				1.8	.2	.7
NORTH DAKOTA												
SOUTH DAKOTA	4.1	1.5	2.1	4.1	4.6	4.4				4.1	2.2	2.7
TEXAS	2.1	.9	1.1							1.2	.7	.8
CENTRAL FLYWAY		.3	.2								.2	.2
	6.2	2.7	3.4	4.1	4.6	4.4				5.3	3.1	3.7
MINNESOTA												
WISCONSIN	8.2	6.5	6.8	8.1	5.5	6.6				8.2	6.2	6.8
MICHIGAN	8.2	8.2	8.2	12.2	11.9	12.0				9.9	9.1	9.3
IOWA	2.1	5.9	5.0	1.4	5.5	3.8				1.8	5.8	4.7
ILLINOIS		.3	.2		.9	.5				.4	.3	.3
OHIO		.6	.5		.9	.5					1.1	.8
MISSOURI		.3	.2								.2	.2
ALABAMA				1.4		.5				.6		.2
MISSISSIPPI FLYWAY	18.5	21.8	20.9	23.1	29.3	26.6				20.5	23.5	22.8
MASSACHUSETTS												
RHODE ISLAND		.3	.2		.9	.5					.2	.2
NEW YORK	1.0	2.1	1.8							.6	2.0	1.6
PENNSYLVANIA		1.2	1.1	2.7	.9	1.6				1.2	1.3	1.3
NEW JERSEY	5.2	.9	1.8	1.4	.9	1.1				3.5	.9	1.6
MARYLAND	56.7	56.3	56.4	56.1	47.7	50.3				55.6	56.2	56.6
VIRGINIA	4.1	3.8	3.9	1.4	1.8	1.6				2.9	3.3	3.2
NORTH CAROLINA	1.0	2.3	2.1	2.7	.9	1.6				1.8	2.0	1.9
SOUTH CAROLINA		.3	.2		.9	.5					.4	.3
FLORIDA				1.4		.5				.6		.2
ATLANTIC FLYWAY	68.0	67.5	67.5	63.7	55.8	58.8				66.2	64.5	65.1
TOTAL (PERCENT)	99.8	100.2	99.7	100.5	99.9	99.6				100.3	99.7	100.2
TOTAL RECOVERIES	97	341	438	74	109	183				171	450	621
BANDING IN: MARYLAND												
RECOVERED IN:												
SASKATCHEWAN		1.7	1.4	11.1		4.2				4.3	1.4	2.1
MANITOBA				11.1		4.2				4.3		1.0
ONTARIO	7.1	9.2	5.6	11.1	6.7	8.3				8.7	5.5	8.3
ALASKA-CANADA	7.1	6.9	7.0	33.3	6.7	16.7				17.3	6.9	9.4
NORTH DAKOTA												
SOUTH DAKOTA		3.4	2.8	11.1		4.2				4.3	2.7	3.1
KANSAS		1.7	1.4		6.7	4.2				1.4	1.4	1.0
OKLAHOMA	7.1		1.4							4.3		1.0
TEXAS	7.1		1.4							4.3		1.0
CENTRAL FLYWAY	14.2	5.1	7.0	11.1	6.7	8.4				12.9	5.5	7.1
MINNESOTA												
WISCONSIN	7.1	5.2	5.6		26.7	16.7				4.3	9.6	8.3
MICHIGAN	7.1	5.2	5.6	11.1	13.3	12.5				8.7	8.8	7.3
IOWA		6.9	5.6	11.1		4.2				4.3	5.5	5.2
TENNESSEE		1.7	1.4		6.7	4.2					2.7	2.1
MISSISSIPPI FLYWAY	7.1		1.4							4.3		1.0
	21.3	19.0	19.6	22.2	46.7	37.6				21.6	24.6	23.9
PENNSYLVANIA												
MARYLAND	50.0	56.9	55.6	11.1		4.2				4.3		
VIRGINIA	7.1	10.3	9.7	22.2	33.3	29.2				39.1	52.1	49.0
NORTH CAROLINA		1.7	1.4		6.7	4.2				4.3		
ATLANTIC FLYWAY	57.1	68.9	66.7	33.3	40.0	37.6				47.7	63.1	59.3
TOTAL (PERCENT)	99.7	99.9	100.3	99.9	100.1	100.3				99.5	100.1	99.7
TOTAL RECOVERIES	14	58	72	9	15	24				23	73	96
BANDING IN: VIRGINIA												
RECOVERED IN:												

TABLE 8. DISTRIBUTION BY SEX OF CANVASBACK BAND RECOVERIES (1923-71) FROM SPRING BANDING ACCOMPLISHED IN MINOR REFERENCE AREAS. RECOVERIES OF NORMAL, WILD BIRDS SHOT OR FOUND DEAD DURING THE HUNTING SEASON ARE PRESENTED AS A PERCENT—CONTINUED

	MALE BIRDS			FEMALE BIRDS			UNKNOWN BIRDS			TOTAL BIRDS		
	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N	HSS-1	HSS2-N	HSS1-N
BANDED IN: VIRGINIA												
RECOVERED IN:												
SASKATCHEWAN	4.5		1.7							3.6	7.7	1.5
ONTARIO	9.1	5.6	6.9		33.3	11.1				7.1	7.7	7.5
ALASKA-CANADA	13.6	5.6	8.6		33.3	11.1				10.7	7.7	9.0
NORTH DAKOTA		8.3	5.2								7.7	4.5
SOUTH DAKOTA		2.8	1.7								2.6	1.5
CENTRAL FLYWAY		11.1	6.9								10.3	6.0
MINNESOTA	4.5	8.3	6.9							3.6	7.7	6.0
WISCONSIN	4.5	13.9	10.3		16.7	33.3				7.1	15.4	11.9
MICHIGAN	4.5		1.7		16.7					7.1		3.0
ILLINOIS		2.8	1.7								2.6	1.5
OHIO		8.3	5.2								7.7	4.5
MISSISSIPPI FLYWAY	13.6	33.3	25.8		33.3	33.3				17.8	33.4	26.9
NEW YORK		2.8	1.7								2.6	1.5
MARYLAND	45.5	22.2	31.0		16.7	33.3				39.3	23.1	29.0
VIRGINIA	4.5	25.0	24.1		33.3					25.0	23.1	23.9
NORTH CAROLINA			1.7		16.7						7.1	3.0
ATLANTIC FLYWAY	72.7	50.0	58.5		66.7	33.3				71.4	48.8	58.3
TOTAL (PERCENT)	99.8	100.0	99.8	100.1	99.9	99.9				99.9	100.2	100.2
TOTAL RECOVERIES	22	36	58	6	3	9				28	39	67
BANDED IN: NORTH CAROLINA												
RECOVERED IN:												
MANITOBA				50.0	33.3	40.0				16.7	25.0	20.0
ALASKA-CANADA				50.0	33.3	40.0				16.7	25.0	20.0
IOWA	25.0		20.0							16.7		10.0
MISSISSIPPI FLYWAY	25.0		20.0							16.7		10.0
NEW JERSEY	25.0		20.0							16.7		10.0
MARYLAND	25.0	100.0	40.0							16.7	25.0	20.0
NORTH CAROLINA	25.0		20.0	50.0	66.7	60.0				33.3	50.0	40.0
ATLANTIC FLYWAY	75.0	100.0	80.0	50.0	66.7	60.0				66.7	75.0	70.0
TOTAL (PERCENT)	100.0	100.0	100.0	100.0	100.0	100.0				100.1	100.0	100.0
TOTAL RECOVERIES	4	1	5	2	3	5				6	4	10
BANDED IN: SOUTH CAROLINA												
RECOVERED IN:												
SOUTH CAROLINA				100.0	100.0						100.0	100.0
ATLANTIC FLYWAY				100.0	100.0						100.0	100.0
TOTAL (PERCENT)				100.0	100.0						100.0	100.0
TOTAL RECOVERIES				1	1						1	1
BANDED IN: FLORIDA												
RECOVERED IN:												
MARYLAND	100.0		100.0							100.0		100.0
ATLANTIC FLYWAY	100.0		100.0							100.0		100.0
TOTAL (PERCENT)	100.0		100.0							100.0		100.0
TOTAL RECOVERIES	1		1							1		1

TABLE 9 SUMMER REFERENCE AREA SOURCES OF THE IMMATURE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL
		OBSERVED	WEIGHTED	WEIGHTED RECOVERIES
ALASKA	ALASKA	2	43.08	100.00
	TOTAL	2	43.08	100.00
BRITISH COLUMBIA	ALASKA	3	64.62	60.74
	BRITISH COLUMBIA	8	20.24	19.02
	ALBERTA	1	21.53	20.24
	TOTAL	12	106.39	100.00
DISTRICT OF MACKENZIE	YUKON-NWT	2	316.90	100.00
	TOTAL	2	316.90	100.00
ALBERTA	ALBERTA	9	193.77	100.00
	TOTAL	9	193.77	100.00
SASKATCHEWAN	N SASKATCHEWAN	12	84.60	21.71
	S SASKATCHEWAN	24	268.08	68.79
	MANITOBA	5	37.05	9.51
	TOTAL	41	389.73	100.01
MANITOBA	N SASKATCHEWAN	4	28.20	5.01
	S SASKATCHEWAN	9	100.53	17.86
	MANITOBA	56	414.96	73.74
	NORTH DAKOTA	1	12.02	2.14
	MINNESOTA	22	7.04	1.25
	TOTAL	92	562.75	100.00
ONTARIO	ALASKA	1	21.54	7.33
	ALBERTA	1	21.53	7.32
	N SASKATCHEWAN	3	21.15	7.19
	S SASKATCHEWAN	5	55.85	19.00
	MANITOBA	16	118.56	40.32
	NORTH DAKOTA	4	48.08	16.35
	SOUTH DAKOTA	1	5.39	1.83
	MINNESOTA	6	1.92	.65
	TOTAL	37	294.02	99.99
QUEBEC	S SASKATCHEWAN	1	11.17	100.00
	TOTAL	1	11.17	100.00
	ALASKA-CANADA	196	1,917.81	
WASHINGTON	ALASKA	9	193.86	75.38
	BRITISH COLUMBIA	8	20.24	7.87
	ALBERTA	2	43.06	16.74
	TOTAL	19	257.16	99.99
OREGON	ALASKA	7	150.78	63.19
	BRITISH COLUMBIA	8	20.24	8.48
	ALBERTA	3	64.59	27.07
	OREGON	1	2.00	.84
	NEVADA	3	1.02	.43
	TOTAL	22	238.63	100.01
IDAHO	ALBERTA	1	21.53	62.84
	S SASKATCHEWAN	1	11.17	32.60
	IDAHO	2	1.22	3.56
	NEVADA	1	.34	.99
	TOTAL	5	34.26	99.99
WESTERN MONTANA	N SASKATCHEWAN	1	7.05	100.00
	TOTAL	1	7.05	100.00
CALIFORNIA	ALASKA	7	150.78	15.09
	YUKON-NWT	1	158.45	15.85
	BRITISH COLUMBIA	19	48.07	4.81
	ALBERTA	21	452.13	45.24
	N SASKATCHEWAN	5	35.25	3.53
	S SASKATCHEWAN	7	78.19	7.82

TABLE 9 SUMMER REFERENCE AREA SOURCES OF THE IMMATURE CANVASBACK HARVEST IN STATES  
AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	MANITOBA	4	29.64	2.97
	OREGON	1	2.00	.20
	IDAHO	2	1.22	.12
	CALIFORNIA	3	3.99	.40
	NEVADA	62	21.08	2.11
	UTAH	1	1.47	.15
	MONTANA	1	16.57	1.66
	MINNESOTA	2	.64	.06
	TOTAL	136	999.48	100.01
NEVADA	ALBERTA	2	43.06	57.00
	IDAHO	1	.61	.81
	NEVADA	45	15.30	20.25
	MONTANA	1	16.57	21.94
	TOTAL	49	75.54	100.00
UTAH	ALASKA	2	43.08	38.19
	ALBERTA	3	64.59	57.26
	IDAHO	1	.61	.54
	NEVADA	9	3.06	2.71
	UTAH	1	1.47	1.30
	TOTAL	16	112.81	100.00
ARIZONA	N SASKATCHEWAN	1	7.05	34.95
	S SASKATCHEWAN	1	11.17	55.38
	IDAHO	1	.61	3.02
	NEVADA	3	1.02	5.06
	MINNESOTA	1	.32	1.59
	TOTAL	7	20.17	100.00
WESTERN NEW MEXICO	NEVADA	1	.34	100.00
	TOTAL	1	.34	100.00
	PACIFIC FLYWAY	256	1,745.44	
NORTH DAKOTA	ALBERTA	1	21.53	5.67
	N SASKATCHEWAN	3	21.15	5.57
	S SASKATCHEWAN	10	111.70	29.41
	MANITOBA	6	44.46	11.70
	NORTH DAKOTA	13	156.26	41.14
	SOUTH DAKOTA	4	21.56	5.68
	MINNESOTA	10	3.20	.84
	TOTAL	47	379.86	100.01
SOUTH DAKOTA	ALBERTA	1	21.53	7.84
	N SASKATCHEWAN	2	14.10	5.13
	S SASKATCHEWAN	6	67.02	24.40
	MANITOBA	8	59.28	21.58
	NORTH DAKOTA	6	72.12	26.26
	SOUTH DAKOTA	7	37.73	13.74
	MINNESOTA	7	2.24	.82
	IDAHO	1	.62	.23
	TOTAL	38	274.64	100.00
EASTERN WYOMING	N SASKATCHEWAN	1	7.05	48.76
	MANITOBA	1	7.41	51.24
	TOTAL	2	14.46	100.00
NEBRASKA	N SASKATCHEWAN	2	14.10	29.49
	S SASKATCHEWAN	1	11.17	23.36
	MANITOBA	3	22.23	46.49
	MINNESOTA	1	.32	.67
	TOTAL	7	47.82	100.01
EASTERN COLORADO	N SASKATCHEWAN	1	7.05	54.82
	SOUTH DAKOTA	1	5.39	41.91
	COLORADO	1	.42	3.27
	TOTAL	3	12.86	100.00
KANSAS	MANITOBA	1	7.41	100.00
	TOTAL	1	7.41	100.00

TABLE 9 SUMMER REFERENCE AREA SOURCES OF THE IMMATURE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED RANO RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL WEIGHTED RECOVERIES
		OBSERVED	WEIGHTED	
EASTERN NEW MEXICO	ALBERTA	1	21.53	64.17
	NORTH DAKOTA	1	12.02	35.83
	TOTAL	2	33.55	100.00
OKLAHOMA	ALBERTA	1	21.53	25.25
	N SASKATCHEWAN	1	7.05	8.27
	S SASKATCHEWAN	4	44.68	52.39
	NORTH DAKOTA	1	12.02	14.09
	TOTAL	7	85.28	100.00
TEXAS	BRITISH COLUMBIA	1	2.53	.58
	ALBERTA	5	107.65	24.66
	N SASKATCHEWAN	10	70.50	16.15
	S SASKATCHEWAN	11	122.87	28.15
	MANITOBA	8	59.28	13.58
	NEVADA	4	1.36	.31
	NORTH DAKOTA	4	48.08	11.02
	SOUTH DAKOTA	4	21.56	4.94
	COLORADO	1	.42	.10
	MINNESOTA	7	2.24	.51
	TOTAL	55	436.49	100.00
CENTRAL FLYWAY		162	1,292.37	
MINNESOTA	YUKON-NWT	2	316.90	39.96
	N SASKATCHEWAN	3	21.15	2.67
	S SASKATCHEWAN	10	111.70	14.09
	MANITOBA	22	163.02	20.56
	NORTH DAKOTA	9	108.18	13.64
	SOUTH DAKOTA	5	26.95	3.40
	MINNESOTA	141	45.12	5.69
	TOTAL	192	793.02	100.01
WISCONSIN	N SASKATCHEWAN	13	91.65	24.66
	S SASKATCHEWAN	6	67.02	18.03
	MANITOBA	19	140.79	37.88
	NORTH DAKOTA	4	48.08	12.93
	SOUTH DAKOTA	3	16.17	4.35
	MINNESOTA	25	8.00	2.15
	TOTAL	70	371.71	100.00
MICHIGAN	ALBERTA	1	21.53	7.82
	N SASKATCHEWAN	3	21.15	7.68
	S SASKATCHEWAN	5	55.85	20.28
	MANITOBA	14	103.74	37.67
	NORTH DAKOTA	5	60.10	21.82
	SOUTH DAKOTA	2	10.78	3.91
	MINNESOTA	7	2.24	.81
	TOTAL	37	275.39	99.99
IOWA	N SASKATCHEWAN	1	7.05	6.72
	S SASKATCHEWAN	3	33.51	31.95
	MANITOBA	3	22.23	21.20
	NORTH DAKOTA	3	36.06	34.38
	SOUTH DAKOTA	1	9.39	9.14
	MINNESOTA	2	.64	.61
	TOTAL	13	104.88	100.00
ILLINOIS	N SASKATCHEWAN	2	14.10	13.64
	S SASKATCHEWAN	3	33.51	32.42
	MANITOBA	5	37.05	35.85
	NORTH DAKOTA	1	12.02	11.63
	SOUTH DAKOTA	1	5.39	5.22
	MINNESOTA	4	1.28	1.24
	TOTAL	16	103.35	100.00
INDIANA	MANITOBA	2	14.82	100.00
	TOTAL	2	14.82	100.00
OHIO	MANITOBA	1	7.41	57.89
	SOUTH DAKOTA	1	5.39	42.11
	TOTAL	2	12.80	100.00

TABLE 9 SUMMER REFERENCE AREA SOURCES OF THE IMMATURE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
MISSOURI	S SASKATCHEWAN	1	11.17	35.60
	MANITOBA	2	14.82	47.23
	SOUTH DAKOTA	1	5.39	17.18
	TOTAL	4	31.38	100.01
KENTUCKY	S SASKATCHEWAN	1	11.17	97.21
	MINNESOTA	1	.32	2.79
	TOTAL	2	11.49	100.00
ARKANSAS	S SASKATCHEWAN	1	11.17	100.00
	TOTAL	1	11.17	100.00
TENNESSEE	N SASKATCHEWAN	1	7.05	14.73
	S SASKATCHEWAN	1	11.17	23.34
	MANITOBA	4	29.64	61.93
	TOTAL	6	47.86	100.00
LOUISIANA	N SASKATCHEWAN	4	28.20	23.68
	S SASKATCHEWAN	2	22.34	18.76
	MANITOBA	6	44.46	37.33
	NEVADA	1	.34	.29
	NORTH DAKOTA	1	12.02	10.09
	SOUTH DAKOTA	2	10.78	9.05
	MINNESOTA	3	.96	.81
	TOTAL	19	119.10	100.01
MISSISSIPPI	N SASKATCHEWAN	1	7.05	100.00
	TOTAL	1	7.05	100.00
ALABAMA	S SASKATCHEWAN	2	22.34	65.02
	NORTH DAKOTA	1	12.02	34.98
	TOTAL	3	34.36	100.00
	MISSISSIPPI FLYWAY	368	1,938.38	
NEW YORK	S SASKATCHEWAN	4	44.68	77.30
	MANITOBA	1	7.41	12.82
	SOUTH DAKOTA	1	5.39	9.33
	MINNESOTA	1	.32	.55
	TOTAL	7	57.80	100.00
PENNSYLVANIA	BRITISH COLUMBIA	1	2.53	8.63
	N SASKATCHEWAN	1	7.05	24.04
	MANITOBA	1	7.41	25.26
	NORTH DAKOTA	1	12.02	40.98
	MINNESOTA	1	.32	1.09
	TOTAL	5	29.33	100.00
NEW JERSEY	N SASKATCHEWAN	1	7.05	95.66
	MINNESOTA	1	.32	4.34
	TOTAL	2	7.37	100.00
DELAWARE	MINNESOTA	1	.32	100.00
	TOTAL	1	.32	100.00
MARYLAND	ALASKA	1	21.54	3.85
	BRITISH COLUMBIA	1	2.53	.45
	N SASKATCHEWAN	9	63.45	11.34
	S SASKATCHEWAN	10	111.70	19.96
	MANITOBA	38	291.58	50.31
	NORTH DAKOTA	9	60.10	10.74
	SOUTH DAKOTA	2	10.78	1.93
	MINNESOTA	25	8.00	1.43
	TOTAL	91	559.68	100.01
VIRGINIA	ALBERTA	2	43.06	25.59
	N SASKATCHEWAN	3	21.15	12.57
	S SASKATCHEWAN	2	22.34	13.28



TABLE 9 SUMMER REFERENCE AREA SOURCES OF THE IMMATURE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	MANITOBA	5	37.05	22.02
	NORTH DAKOTA	3	36.06	21.43
	SOUTH DAKOTA	1	5.39	3.20
	MINNESOTA	10	3.20	1.90
	TOTAL	26	168.25	99.99
NORTH CAROLINA	ALASKA	1	21.54	20.15
	S SASKATCHEWAN	2	22.34	20.90
	MANITOBA	5	37.05	34.66
	NORTH DAKOTA	2	24.04	22.49
	MINNESOTA	6	1.92	1.80
	TOTAL	16	106.89	100.00
SOUTH CAROLINA	N SASKATCHEWAN	2	14.10	65.55
	MANITOBA	1	7.41	34.45
	TOTAL	3	21.51	100.00
GEORGIA	MANITOBA	1	7.41	92.05
	MINNESOTA	2	.64	7.95
	TOTAL	3	8.05	100.00
FLORIDA	N SASKATCHEWAN	2	14.10	55.80
	S SASKATCHEWAN	1	11.17	44.20
	TOTAL	3	25.27	100.00
	ATLANTIC FLYWAY	157	984.47	
BAJA CALIFORNIA	S SASKATCHEWAN	1	11.17	100.00
	TOTAL	1	11.17	100.00
JALISCO	ALASKA	1	21.54	42.62
	ALBERTA	1	21.53	42.60
	N SASKATCHEWAN	1	7.05	13.95
	COLORADO	1	.42	.83
	TOTAL	4	50.54	100.00
MICHIGAN	S SASKATCHEWAN	1	11.17	92.31
	IDAHO	1	.61	5.04
	MINNESOTA	1	.32	2.64
	TOTAL	3	12.10	99.99
CHIHUAHUA	IDAHO	1	.61	10.17
	SOUTH DAKOTA	1	5.39	89.83
	TOTAL	2	6.00	100.00
ZACATECAS	NEVADA	1	.34	100.00
	TOTAL	1	.34	100.00
GUANAJUATO	MANITOBA	1	7.41	100.00
	TOTAL	1	7.41	100.00
MEXICO	NORTH DAKOTA	1	12.02	100.00
	TOTAL	1	12.02	100.00
MEXICO FEDERAL DISTRICT	S SASKATCHEWAN	1	11.17	97.21
	MINNESOTA	1	.32	2.79
	TOTAL	2	11.49	100.00
HIDALGO	N SASKATCHEWAN	1	7.05	100.00
	TOTAL	1	7.05	100.00
	MEXICO	16	118.12	
	CONTINENTAL TOTAL	1,155	7,996.59	

TABLE 10. SUMMER REFERENCE AREA SOURCES OF MALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
YUKON	ALBERTA	1	25.35	100.00
	TOTAL	1	25.35	100.00
BRITISH COLUMBIA	ALASKA	4	4.72	100.00
	TOTAL	4	4.72	100.00
DISTRICT OF MACKENZIE	MINNESOTA	1	1.00	100.00
	TOTAL	1	1.00	100.00
ALBERTA	ALASKA	3	3.54	100.00
	TOTAL	3	3.54	100.00
SASKATCHEWAN	ALASKA	1	1.18	1.47
	N SASKATCHEWAN	3	28.11	34.98
	S SASKATCHEWAN	3	49.92	62.12
	NEVADA	1	.60	.75
	COLORADO	1	.55	.68
	TOTAL	9	80.36	100.00
MANITOBA	N SASKATCHEWAN	1	9.37	27.17
	MANITOBA	2	24.12	69.93
	MINNESOTA	1	1.00	2.90
	TOTAL	4	34.49	100.00
ONTARIO	ALASKA	4	4.72	11.26
	MANITOBA	3	36.18	86.35
	MINNESOTA	1	1.00	2.39
	TOTAL	8	41.90	100.00
ALASKA-CANADA		30	191.36	
WASHINGTON	ALASKA	30	35.40	98.33
	NEVADA	1	.60	1.67
	TOTAL	31	36.00	100.00
OREGON	ALASKA	21	24.78	12.29
	YUKON-NWT	1	113.29	56.21
	ALBERTA	1	25.35	12.58
	S SASKATCHEWAN	1	16.64	8.26
	MONTANA	1	4.40	2.18
	SOUTH DAKOTA	1	17.10	8.48
	TOTAL	26	201.56	100.00
WESTERN MONTANA	ALASKA	1	1.18	100.00
	TOTAL	1	1.18	100.00
CALIFORNIA	ALASKA	74	87.32	20.43
	BRITISH COLUMBIA	1	33.00	7.72
	ALBERTA	8	202.80	47.45
	N SASKATCHEWAN	5	46.85	10.96
	S SASKATCHEWAN	2	32.28	7.19
	OREGON	2	2.76	.65
	CALIFORNIA	2	1.76	.41
	NEVADA	18	10.80	2.53
	MONTANA	2	8.80	2.06
	TOTAL	114	427.37	100.00
NEVADA	ALBERTA	1	25.35	95.48
	NEVADA	2	1.20	4.52
	TOTAL	3	26.55	100.00
UTAH	ALASKA	1	1.18	2.62
	ALBERTA	1	25.35	56.32
	UTAH	1	1.38	3.07
	SOUTH DAKOTA	1	17.10	37.99
	TOTAL	4	45.01	100.00
PACIFIC FLYWAY		179	737.67	

TABLE 10. SUMMER REFERENCE AREA SOURCES OF MALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL
		OBSERVED	WEIGHTED	WEIGHTED RECOVERIES
NORTH DAKOTA	ALASKA	2	2.36	4.53
	N SASKATCHEWAN	1	9.37	18.00
	S SASKATCHEWAN	1	16.64	31.97
	MONTANA	1	4.40	8.45
	NORTH DAKOTA	1	18.28	35.12
	MINNESOTA	1	1.00	1.92
	TOTAL	7	52.05	99.99
SOUTH DAKOTA	YUKON-NWT	1	113.29	62.19
	N SASKATCHEWAN	3	28.11	15.43
	S SASKATCHEWAN	1	16.64	9.13
	MANITOBA	2	24.12	13.24
	TOTAL	7	182.16	99.99
EASTERN WYOMING	NEVADA	1	.60	100.00
	TOTAL	1	.60	100.00
NEBRASKA	S SASKATCHEWAN	1	16.64	100.00
	TOTAL	1	16.64	100.00
KANSAS	ALASKA	1	1.18	2.15
	N SASKATCHEWAN	2	18.74	34.17
	S SASKATCHEWAN	1	16.64	30.34
	NORTH DAKOTA	1	18.28	33.33
	TOTAL	5	54.84	99.99
OKLAHOMA	MANITOBA	1	12.06	92.34
	MINNESOTA	1	1.00	7.66
	TOTAL	2	13.06	100.00
TEXAS	ALASKA	3	3.54	3.10
	ALBERTA	1	25.35	22.23
	N SASKATCHEWAN	2	18.74	16.44
	S SASKATCHEWAN	3	49.92	43.79
	MANITOBA	1	12.06	10.58
	MONTANA	1	4.40	3.86
	TOTAL	11	114.01	100.00
	CENTRAL FLYWAY	34	433.36	
MINNESOTA	ALASKA	2	2.36	2.02
	S SASKATCHEWAN	1	16.64	14.26
	MANITOBA	5	60.30	51.68
	NORTH DAKOTA	1	18.28	15.67
	SOUTH DAKOTA	1	17.10	14.66
	MINNESOTA	2	2.00	1.71
	TOTAL	12	116.68	100.00
WISCONSIN	ALASKA	7	8.26	8.03
	N SASKATCHEWAN	3	28.11	27.32
	MANITOBA	4	48.24	46.89
	NORTH DAKOTA	1	18.28	17.77
	TOTAL	15	102.89	100.01
MICHIGAN	ALASKA	2	2.36	3.66
	N SASKATCHEWAN	1	9.37	14.52
	S SASKATCHEWAN	1	16.64	25.78
	MANITOBA	3	36.18	56.05
	TOTAL	7	64.55	100.01
IOWA	ALASKA	2	2.36	7.61
	N SASKATCHEWAN	1	9.37	30.22
	NORTH DAKOTA	1	18.28	58.95
	MINNESOTA	1	1.00	3.22
	TOTAL	5	31.01	100.00
ILLINOIS	ALASKA	1	1.18	3.70
	S SASKATCHEWAN	1	16.64	52.20
	MANITOBA	1	12.06	37.83

TABLE 10. SUMMER REFERENCE AREA SOURCES OF MALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	MINNESOTA	2	2.00	6.27
	TOTAL	5	31.88	100.00
CHIC	MANITOBA	2	24.12	100.00
	TOTAL	2	24.12	100.00
MISSOURI	MINNESOTA	1	1.00	100.00
	TOTAL	1	1.00	100.00
ARKANSAS	ALASKA	1	1.18	1.95
	N SASKATCHEWAN	1	9.37	15.50
	S SASKATCHEWAN	3	49.92	82.55
	TOTAL	5	60.47	100.00
TENNESSEE	MANITOBA	1	12.06	100.00
	TOTAL	1	12.06	100.00
LOUISIANA	ALASKA	3	3.54	5.16
	ALBERTA	1	25.35	36.95
	N SASKATCHEWAN	1	9.37	13.66
	MANITOBA	1	12.06	17.58
	NORTH DAKOTA	1	18.28	26.65
	TOTAL	7	68.60	100.00
ALABAMA	N SASKATCHEWAN	1	9.37	23.02
	MANITOBA	1	12.06	29.62
	NORTH DAKOTA	1	18.28	44.90
	MINNESOTA	1	1.00	2.46
	TOTAL	4	40.71	100.00
	MISSISSIPPI FLYWAY	64	553.97	
NEW YORK	ALASKA	3	3.54	3.68
	ALBERTA	1	25.35	26.37
	N SASKATCHEWAN	1	16.64	17.31
	MANITOBA	1	12.06	12.54
	NORTH DAKOTA	2	34.56	38.02
	MINNESOTA	2	2.00	2.08
	TOTAL	10	96.15	100.00
PENNSYLVANIA	S SASKATCHEWAN	1	16.64	47.65
	NORTH DAKOTA	1	18.28	52.35
	TOTAL	2	34.92	100.00
NEW JERSEY	MANITOBA	1	12.06	100.00
	TOTAL	1	12.06	100.00
MARYLAND	ALASKA	18	21.24	7.34
	ALBERTA	1	25.35	8.76
	N SASKATCHEWAN	6	56.22	19.43
	S SASKATCHEWAN	3	49.92	17.25
	MANITOBA	6	72.36	25.01
	OKLAHOMA	1	4.40	1.52
	NORTH DAKOTA	3	54.84	18.95
	MINNESOTA	5	5.00	1.73
	TOTAL	43	289.33	99.99
VIRGINIA	ALASKA	7	8.26	3.33
	YUKON-NWT	1	113.29	45.62
	N SASKATCHEWAN	1	9.37	3.77
	S SASKATCHEWAN	3	49.92	20.10
	MANITOBA	4	48.24	19.42
	NORTH DAKOTA	1	18.28	7.36
	MINNESOTA	1	1.00	.40
	TOTAL	18	248.36	100.00
NORTH CAROLINA	ALASKA	3	3.54	8.42
	N SASKATCHEWAN	4	37.48	89.20

TABLE 10 SUMMER REFERENCE AREA SOURCES OF MALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	MINNESOTA	1	1.00	2.38
	TOTAL	8	42.02	100.00
SOUTH CAROLINA	MINNESOTA	1	1.00	100.00
	TOTAL	1	1.00	100.00
	ATLANTIC FLYWAY	83	723.84	
CHILANUA	ALASKA	1	1.18	100.00
	TOTAL	1	1.18	100.00
HIDALGO	ALBERTA	1	25.35	100.00
	TOTAL	1	25.35	100.00
	MEXICO	2	26.53	
	CONTINENTAL TOTAL	392	2,666.73	

TABLE 11 SUMMER REFERENCE AREA SOURCES OF FEMALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
ALASKA	ALASKA	1	2.86	100.00
	TOTAL	1	2.86	100.00
BRITISH COLUMBIA	BRITISH COLUMBIA	4	15.44	100.00
	TOTAL	4	15.44	100.00
ALBERTA	ALBERTA	1	27.13	100.00
	TOTAL	1	27.13	100.00
SASKATCHEWAN	N SASKATCHEWAN	2	17.80	100.00
	TOTAL	2	17.80	100.00
MANITOBA	N SASKATCHEWAN	2	17.80	13.36
	S SASKATCHEWAN	2	23.72	17.80
	MANITOBA	15	70.35	52.79
	NORTH DAKOTA	2	20.94	15.71
	MINNESOTA	1	.46	.35
	TOTAL	22	133.27	100.01
ONTARIO	ALASKA	2	5.72	9.81
	N SASKATCHEWAN	2	17.80	30.53
	S SASKATCHEWAN	1	11.86	20.34
	MANITOBA	3	14.07	24.13
	SOUTH DAKOTA	1	8.39	14.39
	MINNESOTA	1	.46	.79
	TOTAL	10	58.30	99.99
	ALASKA-CANADA	40	254.80	
WASHINGTON	ALASKA	6	17.16	81.64
	BRITISH COLUMBIA	1	3.86	18.36
	TOTAL	7	21.02	100.00
OREGON	ALASKA	6	17.16	100.00
	TOTAL	6	17.16	100.00
IDAHO	ALASKA	1	2.86	100.00
	TOTAL	1	2.86	100.00
WESTERN MONTANA	MINNESOTA	1	.46	100.00
	TOTAL	1	.46	100.00
CALIFORNIA	ALASKA	32	91.52	15.27
	YUKON-NWT	1	278.08	46.41
	BRITISH COLUMBIA	2	7.72	1.29
	ALBERTA	4	108.52	18.11
	N SASKATCHEWAN	5	44.50	7.43
	S SASKATCHEWAN	2	23.72	3.96
	CALIFORNIA	1	1.44	.24
	NEVADA	25	8.50	1.42
	MONTANA	2	5.40	.90
	NORTH DAKOTA	2	20.94	3.49
	SOUTH DAKOTA	1	8.39	1.40
	MINNESOTA	1	.46	.08
	TOTAL	77	599.19	100.00
NEVADA	ALBERTA	2	54.26	97.55
	NEVADA	4	1.36	2.45
	TOTAL	6	55.62	100.00
UTAH	ALASKA	1	2.86	100.00
	TOTAL	1	2.86	100.00
ARIZONA	NEVADA	2	.68	100.00
	TOTAL	2	.68	100.00
PACIFIC FLYWAY		101	699.85	



TABLE 11 SUMMER REFERENCE AREA SOURCES OF FEMALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
ACRTH-CAKCTA	S SASKATCHEWAN	2	23.72	39.46
	MANITOECA	3	14.67	23.41
	NORTH-CAKOTA	2	20.94	34.84
	MINNESCTA	3	1.38	2.30
	TOTAL	10	60.11	100.01
SCUTH-CAKCTA	MANITOECA	5	23.45	69.13
	NORTH-CAKOTA	1	10.47	30.87
	TOTAL	6	33.92	100.00
KANSAS	N SASKATCHEWAN	1	8.90	100.00
	TOTAL	1	8.90	100.00
CKLAFCMA	S SASKATCHEWAN	3	35.58	88.35
	MANITOECA	1	4.69	11.65
	TOTAL	4	40.27	100.00
TEXAS	ALASKA	1	2.86	4.00
	N SASKATCHEWAN	2	17.80	24.87
	S SASKATCHEWAN	2	23.72	33.15
	MANITOECA	3	14.67	19.66
	NEVADA	1	.34	.48
	NORTH-CAKOTA	1	10.47	14.63
	MINNESCTA	5	2.30	3.21
	TOTAL	15	71.56	100.00
	CENTRAL FLYWAY	36	214.76	
MINNESCTA	ALASKA	2	5.72	3.77
	ALBERTA	1	27.13	17.86
	N SASKATCHEWAN	3	26.70	17.58
	S SASKATCHEWAN	3	35.58	23.43
	MANITOECA	7	32.83	21.62
	NORTH-CAKOTA	1	10.47	6.89
	SOUTH-CAKOTA	1	8.39	5.52
	MINNESCTA	11	5.06	3.33
	TOTAL	29	151.88	100.00
WISCONSIN	ALASKA	3	8.58	6.88
	ALBERTA	2	54.26	43.52
	N SASKATCHEWAN	1	8.90	7.14
	S SASKATCHEWAN	2	23.72	19.02
	MANITOECA	4	18.76	15.05
	NORTH-CAKOTA	1	10.47	8.40
	TOTAL	13	124.69	100.01
MICHIGAN	ALBERTA	1	27.13	65.12
	MANITOECA	3	14.67	33.77
	MINNESCTA	1	.46	1.10
	TOTAL	5	41.66	99.99
IOWA	MINNESCTA	1	.46	100.00
	TOTAL	1	.46	100.00
ILLINOIS	NORTH-CAKOTA	3	31.41	98.56
	MINNESCTA	1	.46	1.44
	TOTAL	4	31.87	100.00
OHIO	N SASKATCHEWAN	1	8.90	48.69
	MANITOECA	2	9.38	51.31
	TOTAL	3	18.28	100.00
MISSOURI	MINNESCTA	3	1.38	100.00
	TOTAL	3	1.38	100.00
TENNESSEE	MANITOECA	1	4.69	100.00
	TOTAL	1	4.69	100.00

TABLE 11 SUMMER REFERENCE AREA SOURCES OF FEMALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
LOUISIANA	ALASKA	2	5.72	6.96
	N SASKATCHEWAN	4	35.60	43.29
	S SASKATCHEWAN	1	11.86	14.42
	MANITOBA	6	28.14	34.22
	MINNESOTA	2	.92	1.12
	TOTAL	15	82.24	100.01
MISSISSIPPI	N SASKATCHEWAN	1	8.90	100.00
	TOTAL	1	8.90	100.00
ALABAMA	S SASKATCHEWAN	1	11.86	68.71
	MONTANA	1	5.40	31.29
	TOTAL	2	17.26	100.00
	MISSISSIPPI FLYWAY	77	483.31	
MASSACHUSETTS	N SASKATCHEWAN	1	8.90	100.00
	TOTAL	1	8.90	100.00
NEW YORK	ALASKA	1	2.86	21.73
	MANITOBA	2	9.38	71.28
	MINNESOTA	2	.92	6.99
	TOTAL	5	13.16	100.00
PENNSYLVANIA	N SASKATCHEWAN	1	8.90	21.70
	S SASKATCHEWAN	2	23.72	57.84
	SOUTH DAKOTA	1	8.39	20.46
	TOTAL	4	41.01	100.00
NEW JERSEY	ALASKA	2	5.72	20.39
	S SASKATCHEWAN	1	11.86	42.28
	NORTH DAKOTA	1	10.47	37.33
	TOTAL	4	28.05	100.00
DELAWARE	N SASKATCHEWAN	1	8.90	100.00
	TOTAL	1	8.90	100.00
MARYLAND	ALASKA	3	8.58	2.93
	ALBERTA	2	54.26	18.53
	N SASKATCHEWAN	2	17.80	6.08
	S SASKATCHEWAN	6	71.16	24.30
	MANITOBA	10	84.42	28.83
	MONTANA	1	5.40	1.84
	NORTH DAKOTA	4	41.88	14.30
	SOUTH DAKOTA	1	8.39	2.87
	MINNESOTA	2	.92	.31
	TOTAL	39	292.81	99.99
VIRGINIA	ALASKA	1	2.86	6.26
	N SASKATCHEWAN	1	8.90	19.48
	MANITOBA	5	23.45	51.34
	NORTH DAKOTA	1	10.47	22.92
	TOTAL	8	45.68	100.00
NORTH CAROLINA	ALASKA	1	2.86	4.86
	S SASKATCHEWAN	3	35.58	60.48
	MANITOBA	3	14.07	23.92
	MONTANA	1	5.40	9.18
	MINNESOTA	2	.92	1.56
	TOTAL	10	58.83	100.00
GEORGIA	MANITOBA	1	4.69	91.07
	MINNESOTA	1	.46	8.93
	TOTAL	2	5.15	100.00
FLORIDA	MINNESOTA	1	.46	100.00
	TOTAL	1	.46	100.00
	ATLANTIC FLYWAY	75	502.95	

TABLE 11. SUMMER REFERENCE AREA SOURCES OF FEMALE CANVASBACK HARVESTED AS ADULTS IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL WEIGHTED RECOVERIES
		OBSERVED	WEIGHTED	
SALICIA	NEVADA	1	.34	100.00
	TOTAL	1	.34	100.00
ZACATECAS	N. SASKATCHEWAN	1	8.90	100.00
	TOTAL	1	8.90	100.00
MEXICO	NORTH DAKOTA	1	10.47	100.00
	TOTAL	1	10.47	100.00
NEUVO LEON	ALASKA	1	2.86	100.00
	TOTAL	1	2.86	100.00
	MEXICO	4	22.57	
	CONTINENTAL TOTAL	333	2,178.24	

TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
ALASKA	C NEW YORK	1	.05	100.00
	TOTAL	1	.05	100.00
BRITISH COLUMBIA	WASHINGTON	1	20.06	80.89
	OREGON	1	1.06	4.27
	CALIFORNIA	1	3.68	14.84
	TOTAL	3	24.80	100.00
DISTRICT OF MACKENZIE	W NEW YORK	1	.21	5.72
	C NEW YORK	1	.05	1.36
	S MARYLAND	1	3.41	92.92
	TOTAL	3	3.67	100.00
ALBERTA	OREGON	1	1.06	3.28
	CALIFORNIA	5	18.40	56.91
	LOUISIANA	2	3.38	10.45
	C NEW YORK	1	.05	.15
	DELAWARE	3	.51	1.58
	N MARYLAND	1	2.11	6.53
	S MARYLAND	2	6.82	21.09
	TOTAL	15	32.33	99.99
SASKATCHEWAN	MICHIGAN	2	1.64	4.14
	LOUISIANA	3	5.07	12.80
	W NEW YORK	2	.42	1.06
	C NEW YORK	12	.60	1.52
	DELAWARE	2	.34	.86
	N MARYLAND	4	8.44	21.31
	S MARYLAND	3	10.23	25.83
	VIRGINIA	3	2.49	6.29
	NORTH CAROLINA	1	10.37	26.19
	TOTAL	32	39.60	100.00
MANITOBA	MICHIGAN	1	.82	.68
	INDIANA	1	1.01	.83
	LOUISIANA	4	6.76	5.58
	ALA-MISS	1	5.78	4.77
	W NEW YORK	11	2.31	1.91
	C NEW YORK	29	1.45	1.20
	NEW JERSEY	2	2.20	1.82
	DELAWARE	7	1.19	.98
	N MARYLAND	16	33.76	27.88
	S MARYLAND	12	40.92	33.79
	VIRGINIA	5	4.15	3.43
	NORTH CAROLINA	2	20.74	17.13
	TOTAL	91	121.09	100.00
ONTARIO	MICHIGAN	22	18.04	10.67
	W NEW YORK	36	7.56	4.47
	C NEW YORK	95	4.75	2.81
	NEW JERSEY	8	8.80	5.21
	DELAWARE	7	1.19	.70
	N MARYLAND	23	48.53	28.71
	S MARYLAND	15	51.15	30.26
	VIRGINIA	10	8.30	4.91
	NORTH CAROLINA	2	20.74	12.27
	TOTAL	218	169.06	100.01
QUEBEC	W NEW YORK	1	.21	12.65
	C NEW YORK	7	.35	21.08
	NEW JERSEY	1	1.10	66.27
	TOTAL	9	1.66	100.00
	ALASKA-CANADA	372	392.26	
WASHINGTON	WASHINGTON	5	100.30	89.20
	OREGON	6	6.36	5.66
	CALIFORNIA	1	3.68	3.27
	N MARYLAND	1	2.11	1.88
	TOTAL	13	112.45	100.01
OREGON				

TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED-BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL
		OBSERVED	WEIGHTED	WEIGHTED RECOVERIES
	OREGON	11	11.66	16.85
	CALIFORNIA	15	55.20	79.79
	N NEW YORK	1	.21	.30
	N MARYLAND	1	2.11	3.05
	TOTAL	28	69.18	99.99
ICAHN	CALIFORNIA	3	11.04	83.95
	N MARYLAND	1	2.11	16.05
	TOTAL	4	13.15	100.00
CALIFORNIA	WASHINGTON	1	20.06	2.22
	CALIFORNIA	236	888.48	96.11
	LOUISIANA	1	1.69	.19
	C NEW YORK	3	.15	.02
	NEW JERSEY	3	3.30	.37
	DELAWARE	1	.17	.02
	N MARYLAND	3	6.33	.70
	S MARYLAND	1	3.41	.38
	TOTAL	249	903.59	100.01
NEVADA	LOUISIANA	1	1.69	28.50
	S MARYLAND	1	3.41	57.50
	VIRGINIA	1	.83	14.00
	TOTAL	3	5.93	100.00
UTAH	CALIFORNIA	2	7.36	100.00
	TOTAL	2	7.36	100.00
	PACIFIC FLYWAY	259	1,111.66	
EASTERN MONTANA	N MARYLAND	1	2.11	38.22
	S MARYLAND	1	3.41	61.78
	TOTAL	2	5.52	100.00
NORTH DAKOTA	MICHIGAN	3	2.46	3.04
	N NEW YORK	11	2.31	2.85
	C NEW YORK	23	1.15	1.42
	NEW JERSEY	2	2.20	2.72
	DELAWARE	3	.51	.63
	N MARYLAND	14	29.54	36.50
	S MARYLAND	5	17.05	21.06
	VIRGINIA	6	4.98	6.15
	NORTH CAROLINA	2	20.74	25.62
	TOTAL	69	80.94	99.99
SOUTH DAKOTA	MICHIGAN	4	3.28	6.11
	LOUISIANA	3	5.07	9.45
	N NEW YORK	5	1.05	1.96
	C NEW YORK	16	.86	1.49
	NEW JERSEY	5	5.50	10.25
	N MARYLAND	5	10.55	19.66
	S MARYLAND	5	17.05	31.77
	NORTH CAROLINA	1	10.37	19.32
	TOTAL	44	53.67	100.01
EASTERN WYOMING	CALIFORNIA	2	7.36	77.72
	N MARYLAND	1	2.11	22.28
	TOTAL	3	9.47	100.00
NEBRASKA	N NEW YORK	1	.21	100.00
	TOTAL	1	.21	100.00
EASTERN COLORADO	NEW JERSEY	1	1.10	100.00
	TOTAL	1	1.10	100.00
KANSAS	C NEW YORK	1	.05	.90
	N MARYLAND	1	2.11	37.88
	S MARYLAND	1	3.41	61.22
	TOTAL	3	5.57	100.00

TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
CKLAFCMA	MICHIGAN	1	.82	8.18
	LOUISIANA	2	3.38	33.70
	ALA-MISS	1	5.78	57.63
	C NEW YORK	1	.05	.50
	TOTAL	5	10.03	100.01
TEXAS	TEXAS	5	48.30	73.88
	MICHIGAN	1	.82	1.25
	LOUISIANA	4	6.76	10.34
	N NEW YORK	2	.42	.64
	C NEW YORK	3	.15	.23
	N MARYLAND	1	2.11	3.23
	S MARYLAND	2	6.82	10.43
	TOTAL	18	65.38	100.00
	CENTRAL FLYWAY	146	231.89	
MINNESOTA	TEXAS	1	9.66	5.10
	KENTUCKY	1	6.58	3.47
	MICHIGAN	6	4.92	2.60
	LOUISIANA	3	5.07	2.68
	ALA-MISS	1	5.78	3.05
	N NEW YORK	20	4.20	2.22
	C NEW YORK	41	2.05	1.08
	NEW JERSEY	5	5.50	2.90
	DELAWARE	6	1.02	.54
	N MARYLAND	35	73.85	39.00
	S MARYLAND	16	54.56	28.81
	VIRGINIA	7	5.81	3.07
	NORTH CAROLINA	1	10.37	5.48
	TOTAL	143	189.37	100.00
WISCONSIN	MICHIGAN	5	4.10	1.47
	LOUISIANA	9	15.21	5.46
	ALA-MISS	3	17.34	6.22
	N NEW YORK	17	3.57	1.28
	C NEW YORK	57	2.85	1.02
	NEW JERSEY	6	6.60	2.37
	DELAWARE	9	1.53	.55
	N MARYLAND	38	80.18	28.78
	S MARYLAND	22	75.02	26.93
	VIRGINIA	12	9.96	3.58
	NORTH CAROLINA	6	62.22	22.33
	TOTAL	184	278.58	99.99
MICHIGAN	MICHIGAN	17	13.94	7.53
	LOUISIANA	1	1.69	.91
	ALA-MISS	2	11.56	6.24
	N NEW YORK	20	4.20	2.27
	C NEW YORK	39	1.95	1.05
	NEW JERSEY	6	6.60	3.56
	DELAWARE	11	1.87	1.01
	N MARYLAND	26	54.86	29.62
	S MARYLAND	20	68.20	36.83
	VIRGINIA	12	9.96	5.38
	NORTH CAROLINA	1	10.37	5.60
	TOTAL	155	185.20	100.00
ICWA	MICHIGAN	1	.82	1.83
	LOUISIANA	2	3.38	7.56
	ALA-MISS	2	11.56	25.87
	N NEW YORK	2	.42	.94
	C NEW YORK	2	.10	.22
	NEW JERSEY	1	1.10	2.46
	N MARYLAND	2	4.22	9.44
	S MARYLAND	3	10.23	22.89
	VIRGINIA	3	2.49	5.57
	NORTH CAROLINA	1	10.37	23.20
	TOTAL	19	44.69	99.98
ILLINOIS	TEXAS	1	9.66	18.16
	MICHIGAN	2	1.64	3.08
	INDIANA	2	2.02	3.80
	LOUISIANA	5	8.45	15.88



TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	W NEW YORK	4	.84	1.58
	C NEW YORK	8	.40	.75
	NEW JERSEY	1	1.10	2.07
	DELAWARE	1	.17	.32
	N MARYLAND	2	4.22	7.93
	S MARYLAND	7	23.87	44.87
	VIRGINIA	1	.83	1.56
	TOTAL	34	53.20	100.00
INDIANA	W NEW YORK	1	.21	8.86
	C NEW YORK	1	.05	2.11
	N MARYLAND	1	2.11	89.03
	TOTAL	3	2.37	100.00
OHIO	MICHIGAN	5	4.10	18.61
	LOUISIANA	1	1.69	7.67
	W NEW YORK	6	1.26	5.72
	C NEW YORK	7	.35	1.59
	NEW JERSEY	1	1.10	4.99
	N MARYLAND	2	4.22	19.16
	S MARYLAND	2	6.82	30.96
	VIRGINIA	3	2.49	11.30
	TOTAL	27	22.03	100.00
MISSOURI	ALA-MISS	1	5.78	62.55
	C NEW YORK	1	.05	.54
	S MARYLAND	1	3.41	36.90
	TOTAL	3	9.24	99.99
KENTUCKY	ALA-MISS	1	5.78	60.21
	W NEW YORK	1	.21	2.19
	C NEW YORK	4	.20	2.08
	S MARYLAND	1	3.41	35.52
	TOTAL	7	9.60	100.00
ARKANSAS	LOUISIANA	1	1.69	67.06
	VIRGINIA	1	.83	32.94
	TOTAL	2	2.52	100.00
TENNESSEE	MICHIGAN	7	5.74	74.64
	LOUISIANA	1	1.69	21.98
	W NEW YORK	1	.21	2.73
	C NEW YORK	1	.05	.65
	TOTAL	10	7.69	100.00
LOUISIANA	TEXAS	1	9.66	8.18
	MICHIGAN	3	2.46	2.08
	LOUISIANA	54	91.26	77.31
	ALA-MISS	1	5.78	4.90
	W NEW YORK	1	.21	.18
	C NEW YORK	3	.15	.13
	NEW JERSEY	2	2.20	1.86
	N MARYLAND	3	6.33	5.36
	TOTAL	68	118.05	100.00
MISSISSIPPI	MICHIGAN	1	.82	68.33
	W NEW YORK	1	.21	17.50
	DELAWARE	1	.17	14.17
	TOTAL	3	1.20	100.00
ALABAMA	MICHIGAN	2	1.64	2.65
	ALA-MISS	10	57.80	93.36
	C NEW YORK	4	.20	.32
	NEW JERSEY	1	1.10	1.78
	DELAWARE	2	.34	.55
	VIRGINIA	1	.83	1.34
	TOTAL	20	61.91	100.00
	MISSISSIPPI FLYWAY	678	985.65	
VERMONT	N MARYLAND	1	2.11	100.00

TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
NEW HAMPSHIRE	VIRGINIA	1	.83	100.00
	TOTAL	1	.83	100.00
MASSACHUSETTS	NEW JERSEY	1	1.10	100.00
	TOTAL	1	1.10	100.00
CONNECTICUT	W NEW YORK	2	.42	7.49
	C NEW YORK	3	.15	2.67
	NEW JERSEY	1	1.10	19.61
	DELAWARE	1	.17	3.03
	N MARYLAND	1	2.11	37.61
	VIRGINIA	2	1.66	29.59
	TOTAL	10	5.61	100.00
RHODE ISLAND	C NEW YORK	1	.05	2.31
	N MARYLAND	1	2.11	97.69
	TOTAL	2	2.16	100.00
NEW YORK	MICHIGAN	4	3.28	3.16
	W NEW YORK	106	22.26	21.45
	C NEW YORK	585	29.25	28.19
	NEW JERSEY	8	8.80	8.48
	DELAWARE	2	.34	.33
	N MARYLAND	8	16.88	16.27
	S MARYLAND	6	20.46	19.72
	VIRGINIA	3	2.49	2.40
	TOTAL	722	103.76	100.00
PENNSYLVANIA	W NEW YORK	8	1.68	8.68
	C NEW YORK	6	.30	1.55
	NEW JERSEY	1	1.10	5.68
	DELAWARE	1	.17	.88
	N MARYLAND	2	4.22	21.80
	S MARYLAND	3	10.23	52.84
	VIRGINIA	2	1.66	8.57
	TOTAL	23	19.36	100.00
WEST VIRGINIA	W NEW YORK	1	.21	100.00
	TOTAL	1	.21	100.00
NEW JERSEY	W NEW YORK	1	.21	.24
	C NEW YORK	24	1.20	1.38
	NEW JERSEY	29	31.90	36.56
	DELAWARE	4	.68	.78
	N MARYLAND	5	10.55	12.09
	S MARYLAND	9	30.69	35.17
	VIRGINIA	2	1.66	1.90
	NORTH CAROLINA	1	10.37	11.88
	TOTAL	75	87.26	100.00
DELAWARE	C NEW YORK	2	.10	.73
	NEW JERSEY	1	1.10	7.98
	DELAWARE	9	1.53	11.09
	S MARYLAND	3	10.23	74.18
	VIRGINIA	1	.83	6.02
	TOTAL	16	13.79	100.00
MARYLAND	MICHIGAN	11	9.02	.67
	LOUISIANA	3	5.07	.38
	W NEW YORK	45	9.45	.71
	C NEW YORK	178	8.90	.66
	NEW JERSEY	44	48.40	3.61
	DELAWARE	73	12.41	.93
	N MARYLAND	250	527.50	39.37
	S MARYLAND	157	535.37	39.96
	VIRGINIA	54	44.82	3.35
	NORTH CAROLINA	9	93.33	6.97
	GEORGIA	1	45.63	3.41
	TOTAL	825	1,339.90	100.02
VIRGINIA				

TABLE 12 WINTER REFERENCE AREA SOURCES OF THE ADULT MALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED      WEIGHTED		PER CENT OF TOTAL WEIGHTED RECOVERIES
	MICHIGAN	3	2.46	1.18
	LOUISIANA	1	1.69	.81
	N NEW YORK	10	2.10	1.01
	C NEW YORK	26	1.30	.63
	NEW JERSEY	2	2.20	1.06
	DELAWARE	9	1.53	.74
	N MARYLAND	14	29.54	14.21
	S MARYLAND	31	105.71	50.84
	VIRGINIA	49	40.67	19.56
	NORTH CAROLINA	2	20.74	9.97
	TOTAL	147	207.94	100.01
NORTH CAROLINA	TEXAS	1	9.66	3.27
	MICHIGAN	2	1.64	.55
	N NEW YORK	4	.84	.28
	C NEW YORK	7	.35	.12
	DELAWARE	5	.85	.29
	N MARYLAND	12	25.32	8.56
	S MARYLAND	13	44.33	14.99
	VIRGINIA	19	15.77	5.33
	NORTH CAROLINA	19	197.03	66.61
	TOTAL	82	295.79	100.00
SOUTH CAROLINA	C NEW YORK	1	.05	.04
	N MARYLAND	1	2.11	1.75
	S MARYLAND	1	3.41	2.83
	VIRGINIA	1	.83	.69
	NORTH CAROLINA	1	10.37	8.60
	SOUTH CAROLINA	2	103.86	86.10
	TOTAL	7	120.63	100.01
GEORGIA	NORTH CAROLINA	1	10.37	100.00
	TOTAL	1	10.37	100.00
FLORIDA	C NEW YORK	1	.05	5.68
	VIRGINIA	1	.83	94.32
	TOTAL	2	.88	100.00
	ATLANTIC FLYWAY	1,916	2,211.70	
MICHIGAN	LOUISIANA	1	1.69	100.00
	TOTAL	1	1.69	100.00
VERA CRUZ	LOUISIANA	1	1.69	100.00
	TOTAL	1	1.69	100.00
	MEXICO	2	3.38	
	CONTINENTAL TOTAL	3,413	4,936.54	

TABLE 13. WINTER REFERENCE AREA SOURCES OF THE ADULT FEMALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
ALASKA	OREGON	1	3.38	24.87
	CALIFORNIA	1	4.85	35.69
	ALA-MISS	1	2.50	18.40
	N MARYLAND	1	2.86	21.04
	TOTAL	4	13.59	100.00
ALBERTA	CALIFORNIA	3	14.55	83.57
	N MARYLAND	1	2.86	16.43
	TOTAL	4	17.41	100.00
SASKATCHEWAN	OREGON	1	3.38	7.66
	CALIFORNIA	1	4.85	10.99
	LOUISIANA	3	15.66	35.49
	W NEW YORK	1	.41	.93
	C NEW YORK	2	.16	.36
	DELAWARE	5	1.30	2.95
	N MARYLAND	2	5.72	12.96
	VIRGINIA	5	12.65	28.67
	TOTAL	20	44.13	100.01
MANITоба	MICHIGAN	2	8.30	4.89
	LOUISIANA	4	20.88	12.30
	W NEW YORK	3	1.23	.72
	C NEW YORK	13	1.04	.61
	NEW JERSEY	4	12.88	7.59
	DELAWARE	9	2.34	1.38
	N MARYLAND	10	28.60	16.85
	S MARYLAND	10	28.60	16.85
	VIRGINIA	1	2.53	1.49
	NORTH CAROLINA	5	63.30	37.30
	TOTAL	61	169.70	99.98
ONTARIO	MICHIGAN	5	20.75	13.67
	LOUISIANA	1	5.22	3.44
	ALA-MISS	1	2.50	1.65
	W NEW YORK	8	3.28	2.16
	C NEW YORK	19	1.52	1.00
	NEW JERSEY	2	6.44	4.24
	DELAWARE	5	1.30	.86
	N MARYLAND	5	14.30	9.42
	S MARYLAND	4	11.44	7.54
	VIRGINIA	1	2.53	1.67
	NORTH CAROLINA	1	12.66	8.34
	FLORIDA	1	69.80	46.00
	TOTAL	53	151.74	99.99
QUEBEC	C NEW YORK	3	.24	4.03
	N MARYLAND	1	2.86	47.59
	S MARYLAND	1	2.86	47.99
	TOTAL	5	5.96	100.01
ALASKA-CANADA		147	402.53	
WASHINGTON	WASHINGTON	3	147.48	98.10
	S MARYLAND	1	2.86	1.90
	TOTAL	4	150.34	100.00
OREGON	OREGON	7	23.66	61.92
	CALIFORNIA	3	14.55	38.08
	TOTAL	10	38.21	100.00
CALIFORNIA	CALIFORNIA	129	625.65	97.82
	LOUISIANA	2	10.44	1.63
	W NEW YORK	1	.41	.06
	DELAWARE	1	.26	.04
	N MARYLAND	1	2.86	.45
	TOTAL	134	639.62	100.00
UTAH	CALIFORNIA	1	4.85	62.91
	N MARYLAND	1	2.86	37.09
	TOTAL	2	7.71	100.00

TABLE 13 WINTER REFERENCE AREA SOURCES OF THE ADULT FEMALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
NORTH CAROLINA	CALIFORNIA	1	4.85	6.75
	MICHIGAN	3	12.45	17.34
	LOUISIANA	1	5.22	7.27
	NEW YORK	6	2.46	3.43
	NEW YORK	5	.40	.56
	DELAWARE	3	.78	1.09
	MARYLAND	5	14.30	19.91
	MARYLAND	3	8.58	11.95
	VIRGINIA	4	10.12	14.09
	NORTH CAROLINA	1	12.66	17.63
	TOTAL	32	71.82	100.02
SOUTH CAROLINA	MICHIGAN	1	4.15	6.93
	ALABAMA	2	5.00	8.35
	NEW YORK	1	.41	.68
	NEW YORK	6	.48	.80
	NEW JERSEY	2	6.44	10.76
	DELAWARE	1	.26	.43
	MARYLAND	3	8.58	14.33
	MARYLAND	5	14.30	23.89
	VIRGINIA	3	7.59	12.68
	NORTH CAROLINA	1	12.66	21.15
	TOTAL	25	59.87	100.00
KANSAS	LOUISIANA	1	5.22	61.85
	NEW JERSEY	1	3.22	38.15
	TOTAL	2	8.44	100.00
OKLAHOMA	TEXAS	1	28.01	72.85
	LOUISIANA	2	10.44	27.15
	TOTAL	3	38.45	100.00
TEXAS	TEXAS	3	84.03	76.09
	MICHIGAN	1	4.15	3.76
	LOUISIANA	2	10.44	9.45
	NEW YORK	1	.08	.07
	NEW JERSEY	1	3.22	2.92
	DELAWARE	1	.26	.24
	MARYLAND	2	5.72	5.18
	VIRGINIA	1	2.93	2.29
	TOTAL	12	110.43	100.00
MINNESOTA	CENTRAL FLYWAY	74	289.01	
	MICHIGAN	5	20.75	7.90
	LOUISIANA	4	20.88	7.95
	ALABAMA	3	7.50	2.86
	NEW YORK	7	2.87	1.09
	NEW YORK	30	2.40	.91
	NEW JERSEY	3	9.66	3.68
	DELAWARE	13	3.38	1.29
	MARYLAND	18	51.48	19.61
	MARYLAND	21	60.06	22.88
	VIRGINIA	9	22.77	8.67
	NORTH CAROLINA	4	50.64	19.29
	SOUTH CAROLINA	1	10.12	3.86
	TOTAL	118	262.51	99.99
WISCONSIN	MICHIGAN	4	16.60	6.67
	LOUISIANA	5	26.10	10.49
	ALABAMA	2	5.00	2.01
	NEW YORK	2	.82	.33
	NEW YORK	13	1.04	.42
	NEW JERSEY	2	6.44	2.55
	DELAWARE	11	2.86	1.15
	MARYLAND	7	20.02	8.05
	MARYLAND	12	34.32	13.79
	VIRGINIA	6	15.18	6.10
	NORTH CAROLINA	4	50.64	20.35
	FLORIDA	1	69.80	28.05
	TOTAL	69	248.82	100.00
MICHIGAN				

TABLE 13 WINTER REFERENCE AREA SOURCES OF THE ADULT FEMALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL WEIGHTED RECOVERIES
		OBSERVED	WEIGHTED	
	MICHIGAN	6	24.90	22.68
	N NEW YORK	3	1.23	1.12
	C NEW YORK	5	.40	.36
	NEW JERSEY	2	6.44	5.87
	DELAWARE	3	.78	.71
	N MARYLAND	3	8.58	7.81
	S MARYLAND	5	14.30	13.02
	VIRGINIA	2	5.06	4.61
	NORTH CAROLINA	3	37.98	34.59
	SOUTH CAROLINA	1	10.12	9.22
	TOTAL	33	109.79	99.99
ICWA	LOUISIANA	1	5.22	64.60
	S MARYLAND	1	2.86	35.40
	TOTAL	2	8.08	100.00
ILLINOIS	LOUISIANA	3	15.66	47.23
	C NEW YORK	1	.08	.24
	DELAWARE	1	.26	.78
	N MARYLAND	3	8.58	25.87
	S MARYLAND	3	8.58	25.87
	TOTAL	11	33.16	99.99
INDIC	MICHIGAN	1	4.15	0.43
	N NEW YORK	2	.82	9.96
	C NEW YORK	5	.40	4.86
	N MARYLAND	1	2.86	34.75
	TOTAL	9	8.23	100.00
MISSOURI	ALA-MISS	1	2.50	96.90
	C NEW YORK	1	.08	3.10
	TOTAL	2	2.58	100.00
KENTUCKY	ALA-MISS	1	2.50	85.91
	N NEW YORK	1	.41	14.09
	TOTAL	2	2.91	100.00
TENNESSEE	ALA-MISS	4	10.00	99.21
	C NEW YORK	1	.08	.79
	TOTAL	5	10.08	100.00
LOUISIANA	LOUISIANA	13	67.86	93.00
	ALA-MISS	1	2.50	3.43
	C NEW YORK	1	.08	.11
	VIRGINIA	1	2.53	3.47
	TOTAL	16	72.97	100.01
MISSISSIPPI	S MARYLAND	1	2.86	100.00
	TOTAL	1	2.86	100.00
ALABAMA	ALA-MISS	19	47.50	100.00
	TOTAL	19	47.50	100.00
	MISSISSIPPI FLYWAY	287	809.49	
MASSACHUSETTS	S MARYLAND	1	2.86	100.00
	TOTAL	1	2.86	100.00
CONNECTICUT	N NEW YORK	1	.41	83.67
	C NEW YORK	1	.08	16.33
	TOTAL	2	.49	100.00
NEW YORK	N NEW YORK	26	10.66	23.95
	C NEW YORK	120	9.60	21.57
	NEW JERSEY	4	12.88	28.94
	DELAWARE	1	.26	.58
	N MARYLAND	3	8.58	19.28
	VIRGINIA	1	2.53	5.68
	TOTAL	155	44.51	100.00

TABLE 13 WINTER REFERENCE AREA SOURCES OF THE ADULT FEMALE CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
PENNSYLVANIA	MICHIGAN	2	8.30	37.32
	N NEW YORK	4	1.64	7.37
	C NEW YORK	3	.24	1.08
	NEW JERSEY	1	3.22	14.48
	DELAWARE	1	.26	1.17
	N MARYLAND	2	5.72	25.72
	S MARYLAND	1	2.86	12.86
	TOTAL	14	22.24	100.00
NEW JERSEY	C NEW YORK	6	.48	.97
	NEW JERSEY	8	25.76	52.32
	DELAWARE	3	.78	1.58
	S MARYLAND	6	17.16	34.85
	VIRGINIA	2	5.06	10.28
	TOTAL	25	49.24	100.00
DELAWARE	DELAWARE	6	1.56	100.00
	TOTAL	6	1.56	100.00
MARYLAND	MICHIGAN	4	16.60	2.56
	ALA-MISS	1	2.50	.39
	N NEW YORK	17	6.97	1.08
	C NEW YORK	47	3.76	.58
	NEW JERSEY	13	41.86	6.46
	DELAWARE	48	12.48	1.93
	N MARYLAND	66	188.76	29.12
	S MARYLAND	87	248.82	38.38
	VIRGINIA	20	50.60	7.80
	NORTH CAROLINA	6	75.96	11.72
	TOTAL	309	648.31	100.02
VIRGINIA	N NEW YORK	4	1.64	.94
	C NEW YORK	4	.32	.18
	NEW JERSEY	1	3.22	1.85
	DELAWARE	5	1.30	.75
	N MARYLAND	2	5.72	3.28
	S MARYLAND	16	45.76	26.24
	VIRGINIA	27	68.31	39.18
	NORTH CAROLINA	3	37.98	21.78
	SOUTH CAROLINA	1	10.12	5.80
	TOTAL	63	174.37	100.00
NORTH CAROLINA	LOUISIANA	1	5.22	2.29
	C NEW YORK	2	.16	.07
	DELAWARE	2	.52	.23
	N MARYLAND	3	8.58	3.77
	S MARYLAND	9	25.74	11.31
	VIRGINIA	9	22.77	10.01
	NORTH CAROLINA	13	164.58	72.32
	TOTAL	39	227.57	100.00
SOUTH CAROLINA	SOUTH CAROLINA	3	30.36	100.00
	TOTAL	3	30.36	100.00
GEORGIA	S MARYLAND	1	2.86	100.00
	TOTAL	1	2.86	100.00
FLORIDA	S MARYLAND	1	2.86	3.35
	NORTH CAROLINA	1	12.66	14.84
	FLORIDA	1	69.80	81.81
	TOTAL	3	85.32	100.00
	ATLANTIC FLYWAY	621	1,289.69	
SCENEA	DELAWARE	1	.26	100.00
	TOTAL	1	.26	100.00
TAMULIPAS	LOUISIANA	1	5.22	100.00
	TOTAL	1	5.22	100.00
	MEXICO	2	5.48	



TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED	WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
ALASKA	OREGON	1	3.38	24.78
	CALIFORNIA	1	4.85	35.56
	ALA-MISS	1	2.50	18.33
	C NEW YORK	1	.05	.37
	N MARYLAND	1	2.86	20.97
	TOTAL	5	13.64	100.01
BRITISH COLUMBIA	WASHINGTON	1	20.06	80.89
	OREGON	1	1.06	4.27
	CALIFORNIA	1	3.68	14.84
	TOTAL	3	24.80	100.00
DISTRICT OF MACKENZIE	W NEW YORK	1	.21	5.72
	C NEW YORK	1	.05	1.36
	S MARYLAND	1	3.41	92.92
	TOTAL	3	3.67	100.00
ALBERTA	OREGON	1	1.06	2.13
	CALIFORNIA	8	32.95	66.24
	LOUISIANA	2	3.38	6.80
	C NEW YORK	1	.05	.10
	DELAWARE	3	.51	1.03
	N MARYLAND	2	4.97	9.99
	S MARYLAND	2	6.82	13.71
	TOTAL	19	49.74	100.00
SASKATCHEWAN	OREGON	1	3.38	4.04
	CALIFORNIA	1	4.85	5.79
	MICHIGAN	2	1.64	1.96
	LOUISIANA	6	20.73	24.76
	W NEW YORK	3	.83	.99
	C NEW YORK	14	.76	.91
	DELAWARE	7	1.64	1.96
	N MARYLAND	6	14.16	16.91
	S MARYLAND	3	10.23	12.22
	VIRGINIA	8	15.14	18.08
	NORTH CAROLINA	1	10.37	12.39
	TOTAL	52	83.73	100.01
MANITOBA	MICHIGAN	3	9.12	3.14
	INDIANA	1	1.01	.35
	LOUISIANA	8	27.64	9.51
	ALA-MISS	1	5.78	1.99
	W NEW YORK	14	3.54	1.22
	C NEW YORK	42	2.49	.86
	NEW JERSEY	6	15.08	5.19
	DELAWARE	16	3.53	1.21
	N MARYLAND	26	62.36	21.45
	S MARYLAND	22	69.52	23.91
	VIRGINIA	6	6.68	2.30
	NORTH CAROLINA	7	84.04	28.90
	TOTAL	152	290.79	100.03
ONTARIO	MICHIGAN	27	38.79	12.09
	LOUISIANA	1	5.22	1.63
	ALA-MISS	1	2.50	.78
	W NEW YORK	44	10.84	3.38
	C NEW YORK	114	6.27	1.95
	NEW JERSEY	10	15.24	4.75
	DELAWARE	12	2.49	.78
	N MARYLAND	28	62.83	19.59
	S MARYLAND	19	62.59	19.51
	VIRGINIA	11	10.83	3.38
	NORTH CAROLINA	3	33.40	10.41
	FLORIDA	1	69.80	21.76
	TOTAL	271	320.80	100.01
QUEBEC	W NEW YORK	1	.21	2.76
	C NEW YORK	10	.59	7.74
	NEW JERSEY	1	1.10	14.44
	N MARYLAND	1	2.86	37.53
	S MARYLAND	1	2.86	37.53
	TOTAL	14	7.62	100.00

TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
WASHINGTON	WASHINGTON	8	247.78	94.29
	OREGON	6	6.36	2.42
	CALIFORNIA	1	3.68	1.40
	N MARYLAND	1	2.11	.80
	S MARYLAND	1	2.86	1.09
	TOTAL	17	262.79	100.00
OREGON	OREGON	18	35.32	32.89
	CALIFORNIA	18	69.75	64.95
	N NEW YORK	1	.21	.20
	N MARYLAND	1	2.11	1.96
	TOTAL	38	107.39	100.00
IDAHO	CALIFORNIA	3	11.64	83.95
	N MARYLAND	1	2.11	16.05
	TOTAL	4	13.15	100.00
CALIFORNIA	WASHINGTON	1	20.06	1.30
	CALIFORNIA	365	1,494.13	96.82
	LOUISIANA	3	12.13	.79
	N NEW YORK	1	.41	.03
	C NEW YORK	3	.15	.01
	NEW JERSEY	3	3.30	.21
	DELAWARE	2	.43	.03
	N MARYLAND	4	9.19	.60
	S MARYLAND	1	3.41	.22
	TOTAL	383	1,543.21	100.01
NEVADA	LOUISIANA	1	1.69	28.50
	S MARYLAND	1	3.41	57.50
	VIRGINIA	1	.83	14.00
	TOTAL	3	5.93	100.00
UTAH	CALIFORNIA	3	12.21	81.02
	N MARYLAND	1	2.86	18.98
	TOTAL	4	15.07	100.00
	PACIFIC FLYWAY	449	1,947.54	
EASTERN MONTANA	N MARYLAND	1	2.11	38.22
	S MARYLAND	1	3.41	61.78
	TOTAL	2	5.52	100.00
NORTH DAKOTA	CALIFORNIA	1	4.85	3.17
	MICHIGAN	6	14.91	9.76
	LOUISIANA	1	5.22	3.42
	N NEW YORK	17	4.77	3.12
	C NEW YORK	28	1.55	1.01
	NEW JERSEY	2	2.20	1.44
	DELAWARE	6	1.29	.84
	N MARYLAND	19	43.84	28.70
	S MARYLAND	8	25.63	16.78
	VIRGINIA	10	15.10	9.88
	NORTH CAROLINA	3	33.40	21.86
	TOTAL	101	152.76	99.98
SOUTH DAKOTA	MICHIGAN	5	7.43	6.54
	LOUISIANA	3	5.07	4.47
	ALA-MISS	2	5.00	4.40
	N NEW YORK	6	1.46	1.29
	C NEW YORK	22	1.28	1.13
	NEW JERSEY	7	11.94	10.52
	DELAWARE	1	.26	.23
	N MARYLAND	8	19.13	16.85
	S MARYLAND	10	31.35	27.61
	VIRGINIA	3	7.59	6.68
	NORTH CAROLINA	2	23.03	20.28
	TOTAL	69	113.54	100.00
EASTERN WYOMING	CALIFORNIA	2	7.36	77.72
	N MARYLAND	1	2.11	22.28
	TOTAL	3	9.47	100.00

TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
NEBRASKA	N NEW YORK	1	.21	100.00
	TOTAL	1	.21	100.00
EASTERN COLORADO	NEW JERSEY	1	1.10	100.00
	TOTAL	1	1.10	100.00
KANSAS	LOUISIANA	1	5.22	37.26
	C NEW YORK	1	.05	.36
	NEW JERSEY	1	3.22	22.98
	N MARYLAND	1	2.11	15.06
	S MARYLAND	1	3.41	24.34
	TOTAL	5	14.01	100.00
OKLAHOMA	TEXAS	1	28.01	57.78
	MICHIGAN	1	.82	1.69
	LOUISIANA	4	13.82	28.51
	ALA-MISS	1	5.78	11.92
	C NEW YORK	1	.05	.10
	TOTAL	8	48.48	100.00
TEXAS	TEXAS	8	132.33	75.27
	MICHIGAN	2	4.97	2.83
	LOUISIANA	6	17.20	9.78
	N NEW YORK	2	.42	.24
	C NEW YORK	4	.23	.13
	NEW JERSEY	1	3.22	1.83
	DELAWARE	1	.26	.15
	N MARYLAND	1	2.11	1.20
	S MARYLAND	4	12.54	7.13
	VIRGINIA	1	2.53	1.44
	TOTAL	30	175.81	100.00
	CENTRAL FLYWAY	220	520.90	
MINNESOTA	TEXAS	1	9.66	2.14
	KENTUCKY	1	6.58	1.46
	MICHIGAN	11	25.67	5.68
	LOUISIANA	7	25.95	5.74
	ALA-MISS	4	13.28	2.94
	N NEW YORK	27	7.07	1.56
	C NEW YORK	71	4.45	.98
	NEW JERSEY	8	15.16	3.35
	DELAWARE	19	4.40	.97
	N MARYLAND	53	125.33	27.74
	S MARYLAND	37	114.62	25.37
	VIRGINIA	16	28.58	6.32
	NORTH CAROLINA	5	61.01	13.50
	SOUTH CAROLINA	1	10.12	2.24
	TOTAL	261	451.88	99.99
WISCONSIN	MICHIGAN	9	20.70	3.92
	LOUISIANA	14	41.31	7.83
	ALA-MISS	5	22.34	4.24
	N NEW YORK	19	4.39	.83
	C NEW YORK	70	3.89	.74
	NEW JERSEY	8	13.04	2.47
	DELAWARE	20	4.39	.83
	N MARYLAND	45	100.20	19.00
	S MARYLAND	34	109.34	20.73
	VIRGINIA	18	25.14	4.77
	NORTH CAROLINA	10	112.86	21.46
	FLORIDA	1	69.80	13.23
	TOTAL	253	527.40	99.99
MICHIGAN	MICHIGAN	23	38.84	13.17
	LOUISIANA	1	1.69	.57
	ALA-MISS	2	11.56	3.92
	N NEW YORK	23	5.43	1.84
	C NEW YORK	44	2.35	.80
	NEW JERSEY	8	13.04	4.42
	DELAWARE	14	2.65	.90
	N MARYLAND	29	63.44	21.51
	S MARYLAND	25	82.50	27.97

TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	VIRGINIA	14	15.02	5.09
	NORTH CAROLINA	4	48.35	16.39
	SOUTH CAROLINA	1	10.12	3.43
	TOTAL	188	294.99	100.01
ICWA	MICHIGAN	1	.82	1.55
	LOUISIANA	3	8.60	16.30
	ALA-MISS	2	11.56	21.91
	W NEW YORK	2	.42	.80
	C NEW YORK	2	.10	.19
	NEW JERSEY	1	1.10	2.08
	N MARYLAND	2	4.22	8.00
	S MARYLAND	4	13.09	24.81
	VIRGINIA	3	2.49	4.72
	NORTH CAROLINA	1	10.37	19.65
	TOTAL	21	52.17	100.01
ILLINOIS	TEXAS	1	9.66	11.19
	MICHIGAN	2	1.64	1.90
	INDIANA	2	2.02	2.34
	LOUISIANA	8	24.11	27.92
	W NEW YORK	4	.84	.97
	C NEW YORK	9	.48	.56
	NEW JERSEY	1	1.10	1.27
	DELAWARE	2	.43	.50
	N MARYLAND	5	12.80	14.82
	S MARYLAND	10	32.45	37.58
	VIRGINIA	1	.83	.96
	TOTAL	45	86.36	100.01
INDIANA	W NEW YORK	1	.21	8.86
	C NEW YORK	1	.05	2.11
	N MARYLAND	1	2.11	89.03
	TOTAL	3	2.37	100.00
CFIC	MICHIGAN	6	8.25	27.26
	LOUISIANA	1	1.69	5.58
	W NEW YORK	8	2.08	6.87
	C NEW YORK	12	.75	2.48
	NEW JERSEY	1	1.10	3.64
	N MARYLAND	3	7.08	23.40
	S MARYLAND	2	6.82	22.54
	VIRGINIA	3	2.49	8.23
	TOTAL	36	30.26	100.00
MISSOURI	ALA-MISS	2	8.28	70.05
	C NEW YORK	2	.13	1.10
	S MARYLAND	1	3.41	28.85
	TOTAL	5	11.82	100.00
KENTUCKY	ALA-MISS	2	8.28	66.19
	W NEW YORK	2	.62	4.96
	C NEW YORK	4	.20	1.60
	S MARYLAND	1	3.41	27.26
	TOTAL	9	12.51	100.01
ARKANSAS	LOUISIANA	1	1.69	67.06
	VIRGINIA	1	.83	32.94
	TOTAL	2	2.52	100.00
TENNESSEE	MICHIGAN	7	5.74	32.30
	LOUISIANA	1	1.69	9.51
	ALA-MISS	4	10.00	56.27
	W NEW YORK	1	.21	1.18
	C NEW YORK	2	.13	.73
	TOTAL	15	17.77	99.99
LOUISIANA	TEXAS	1	9.66	5.06
	MICHIGAN	3	2.46	1.29
	LOUISIANA	67	159.12	83.30
	ALA-MISS	2	8.28	4.33

TABLE 24 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES OBSERVED      WEIGHTED		PER CENT OF TOTAL WEIGHTED RECOVERIES
	W NEW YORK	1	.21	.11
	C NEW YORK	4	.23	.12
	NEW JERSEY	2	2.20	1.15
	N MARYLAND	3	6.33	3.31
	VIRGINIA	1	2.53	1.32
	TOTAL	84	191.02	99.99
MISSISSIPPI	MICHIGAN	1	.82	20.20
	W NEW YORK	1	.21	5.17
	DELAWARE	1	.17	4.19
	S MARYLAND	1	2.86	70.44
	TOTAL	4	4.06	100.00
ALABAMA	MICHIGAN	2	1.64	1.50
	ALA-MISS	29	105.30	96.24
	C NEW YORK	4	.20	.18
	NEW JERSEY	1	1.10	1.01
	DELAWARE	2	.34	.31
	VIRGINIA	1	.83	.76
	TOTAL	39	109.41	100.00
	MISSISSIPPI FLYWAY	965	1,795.14	
VERMONT	N MARYLAND	1	2.11	100.00
	TOTAL	1	2.11	100.00
NEW HAMPSHIRE	VIRGINIA	1	.83	100.00
	TOTAL	1	.83	100.00
MASSACHUSETTS	NEW JERSEY	1	1.10	27.78
	S MARYLAND	1	2.86	72.22
	TOTAL	2	3.96	100.00
CONNECTICUT	W NEW YORK	3	.83	13.61
	C NEW YORK	4	.23	3.77
	NEW JERSEY	1	1.10	18.03
	DELAWARE	1	.17	2.79
	N MARYLAND	1	2.11	34.59
	VIRGINIA	2	1.66	27.21
	TOTAL	12	6.10	100.00
RHODE ISLAND	C NEW YORK	1	.05	2.31
	N MARYLAND	1	2.11	97.69
	TOTAL	2	2.16	100.00
NEW YORK	MICHIGAN	4	3.28	2.21
	W NEW YORK	132	32.92	22.20
	C NEW YORK	705	38.85	26.20
	NEW JERSEY	12	21.68	14.62
	DELAWARE	3	.60	.40
	N MARYLAND	11	25.46	17.17
	S MARYLAND	6	20.46	13.80
	VIRGINIA	4	5.02	3.39
	TOTAL	877	148.27	99.99
PENNSYLVANIA	MICHIGAN	2	8.30	19.95
	W NEW YORK	12	3.32	7.98
	C NEW YORK	9	.54	1.30
	NEW JERSEY	2	4.32	10.38
	DELAWARE	2	.43	1.03
	N MARYLAND	4	9.94	23.89
	S MARYLAND	4	13.09	31.47
	VIRGINIA	2	1.66	3.99
	TOTAL	37	41.60	99.99
WEST VIRGINIA	W NEW YORK	1	.21	100.00
	TOTAL	1	.21	100.00
NEW JERSEY	W NEW YORK	1	.21	.15

TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF OBSERVED	RECOVERIES WEIGHTED	PER CENT OF TOTAL WEIGHTED RECOVERIES
	C NEW YORK	30	1.68	1.23
	NEW JERSEY	37	57.66	42.24
	DELAWARE	7	1.46	1.07
	N MARYLAND	5	10.55	7.73
	S MARYLAND	15	47.85	35.05
	VIRGINIA	4	6.72	4.92
	NORTH CAROLINA	1	10.37	7.60
	TOTAL	100	136.50	99.99
DELAWARE	C NEW YORK	2	.10	.65
	NEW JERSEY	1	1.10	7.17
	DELAWARE	15	3.09	20.13
	S MARYLAND	3	10.23	66.64
	VIRGINIA	1	.83	5.41
	TOTAL	22	15.35	100.00
MARYLAND	MICHIGAN	15	25.62	1.29
	LOUISIANA	3	5.07	.26
	ALA-MISS	1	2.50	.13
	W NEW YORK	62	16.42	.83
	C NEW YORK	225	12.66	.64
	NEW JERSEY	57	90.26	4.54
	DELAWARE	121	24.89	1.25
	N MARYLAND	316	716.26	36.03
	S MARYLAND	244	784.19	39.44
	VIRGINIA	74	95.42	4.80
	NORTH CAROLINA	15	169.29	8.51
	GEORGIA	1	45.63	2.30
	TOTAL	1,134	1,988.21	100.02
VIRGINIA	MICHIGAN	3	2.46	.64
	LOUISIANA	1	1.69	.44
	W NEW YORK	14	3.74	.98
	C NEW YORK	30	1.62	.42
	NEW JERSEY	3	5.42	1.42
	DELAWARE	14	2.83	.74
	N MARYLAND	16	35.26	9.22
	S MARYLAND	47	151.47	39.62
	VIRGINIA	76	108.58	28.51
	NORTH CAROLINA	5	58.72	15.36
	SOUTH CAROLINA	1	10.12	2.65
	TOTAL	210	382.31	100.00
NORTH CAROLINA	TEXAS	1	9.66	1.85
	MICHIGAN	2	1.64	.31
	LOUISIANA	1	5.22	1.00
	W NEW YORK	4	.84	.16
	C NEW YORK	9	.51	.10
	DELAWARE	7	1.37	.26
	N MARYLAND	15	33.90	6.48
	S MARYLAND	22	70.07	13.39
	VIRGINIA	28	38.54	7.36
	NORTH CAROLINA	32	361.61	69.09
	TOTAL	121	523.36	100.00
SOUTH CAROLINA	C NEW YORK	1	.05	.03
	N MARYLAND	1	2.11	1.40
	S MARYLAND	1	3.41	2.26
	VIRGINIA	1	.83	.55
	NORTH CAROLINA	1	10.37	6.87
	SOUTH CAROLINA	5	134.22	88.89
	TOTAL	10	150.99	100.00
GEORGIA	S MARYLAND	1	2.86	21.62
	NORTH CAROLINA	1	10.37	78.38
	TOTAL	2	13.23	100.00
FLORIDA	C NEW YORK	1	.05	.06
	S MARYLAND	1	2.86	3.32
	VIRGINIA	1	.83	.96
	NORTH CAROLINA	1	12.66	14.69
	FLORIDA	1	69.80	80.97
	TOTAL	5	86.20	100.00



TABLE 14 WINTER REFERENCE AREA SOURCES OF THE ADULT CANVASBACK HARVEST IN STATES  
AND PROVINCES, BASED ON WEIGHTED BAND RECOVERIES--CONTINUED

HARVEST AREA	SOURCE OF HARVEST	NUMBER OF RECOVERIES		PER CENT OF TOTAL WEIGHTED RECOVERIES
		OBSERVED	WEIGHTED	
SONORA	DELAWARE	1	.26	100.00
	TOTAL	1	.26	100.00
MICHIGAN	LOUISIANA	1	1.69	100.00
	TOTAL	1	1.69	100.00
VERA CRUZ	LOUISIANA	1	1.69	100.00
	TOTAL	1	1.69	100.00
TAMAULIPAS	LOUISIANA	1	5.22	100.00
	TOTAL	1	5.22	100.00
	MEXICO	4	8.86	
	CONTINENTAL TOTAL	4,694	8,568.62	



Table 15.--Comparison of the distribution of the canvasback harvest based on kill surveys with that indicated by weighted band recoveries

Harvest Areas	Kill Surveys	Weighted Recoveries from		Winter Banding
		Summer Banding of Immatures & Locals	Adults	
Canada	19.0	23.4	9.2	9.1
Pacific Flyway	20.7	22.4	29.7	22.9
Central Flyway	16.6	16.2	13.4	6.1
Mississippi Flyway	25.9	24.2	21.4	21.0
Atlantic Flyway	17.8	12.3	25.3	40.9
Mexico	*	1.5	1.0	0.1
Total	100.0	100.0	100.0	100.1

\*Not available for Mexico.

## APPENDIX

Table 1.--Individuals and agencies that have banded more than 200 normal wild canvasbacks through 1971<sup>a</sup>/

Permittee	State of Banding	Years of Banding	Total Banded
New York Dept. of Env. Conservation	New York	1952-72	19433
Maryland Div. of Wildlife Admin.	Maryland	1952-72	7075
W. J. Parker, BSF&W	Maryland Saskatchewan	1960-62 1967-72	4862
J. D. Withers, BSF&W	Maryland Manitoba	1957-67 1970-71	4625
Michigan Dept. of Natural Resources	Michigan	1941, 48-63	3701
Delaware Div. of Fish & Wildlife	Delaware	1954-65	3346
California Dept. of Fish & Game	California	1948-58 1968-72	3295
R. H. Bain	Virginia	1963, 67-69	3201
J. G. King, BSF&W	Alaska	1951-66	2560
E. A. McIlhenny	Louisiana	1929-41	1890
New Jersey Dept. of Fish, Game & Shellfish	New Jersey	1955-71	1602
Oakland Park & Recreation Dept.	California	1959-72	1539
R. O. Halstead, BSF&W	Delaware North Carolina	1958-63 1967-68	1489
Minnesota Div. of Game & Fish	Minnesota	1952-71	1393
D. E. Russ, BSF&W	Maryland New York	1955-58	1068
S. M. Batterson	Oregon	1925, 29-40	1057
Ducks Unlimited	Alberta Manitoba Saskatchewan	1939-71	757
Ruby Lake NWR	Nevada	1947-48 1965-71	740

## APPENDIX (Cont'd)

Table 1.--Individuals and agencies that have banded more than 200 normal wild canvasbacks through 1971a/ (Cont'd)

Permittee	State of Banding	Years of Banding	Total Banded
F. C. Kniffin, BSF&W	North Dakota Manitoba Saskatchewan	1960-64	546
W. E. Price, BSF&W	Virginia Saskatchewan	1957-59	497
J. D. Eadie, BSF&W	Alabama Saskatchewan	1963-66	494
Virginia Com. of Game & Inland Fish	Virginia	1955-56,68	465
A. S. Hawkins, BSF&W	Manitoba	1949-53	454
Idaho Fish & Game Dept.	Idaho	1952,56 1959-65,70-71	328
J. E. Downs, BSF&W	California	1968	295
E. M. Bosak, BSF&W	Manitoba Saskatchewan	1959-63	285
Malheur NWR	Oregon	1929-65	267
North Dakota Game & Fish Dept.	North Dakota	1950-58	252
V. A. Blazevic	North Dakota Manitoba	1956-58 1963-65,69	230
U.S. & Canadian Wildlife Service M&E-BSF&W	Alberta Mackenzie, NWT Manitoba Saskatchewan	1966-67	226
Nevada Dept. of Fish & Game	Nevada	1950,61 1968-71	224
Indiana Dept. of Natural Resources	Indiana	1943-62 1967-69	224

## APPENDIX (Cont'd)

Table 1.--Individuals and agencies that have banded more than 200 normal wild canvasbacks through 1971<sup>a</sup>/ (Cont'd)

Permittee	State of Banding	Years of Banding	Total Banded
J. H. Stoudt, BSF&W	North Dakota	1949	204
	South Dakota	1952-71	
	Saskatchewan		

<sup>a</sup>/ At the time this tabulation was prepared banding reports for 1972 were incomplete, however, if they were present in the MBPS-EDP Unit as of 31 August 1972, they have been included.









